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1916

Griffith AND Turner Co.

ESTABLISHED
1860
CATALOGUE
No 29

FARM AND GARDEN

SUPPLIES

GENERAL OFFICES, 205-215 N. PACA ST.

BRANCH HOUSE, 366 N. GAY ST.

BALTIMORE, MD.

Prospective Customers who are not rated in the Commercial agencies will save time in having their goods shipped by accompanying their Orders either with the Cash or satisfactory references. Baltimore references preferred.

NOTICE.—We make a specialty of quoting on complete outfits. **SEND FOR PRICES.**

FILLING ORDERS.—Every order is filled and forwarded as promptly as possible, but if not duly received, please notify us and we will make every effort to trace it without delay. Do not fail to sign your name and give full address.

PACKING AND SHIPPING.—We make no charge for boxes or packing of retail orders, and deliver all goods to any railroad or steamboat free of charge. We charge for cotton bags as follows: Peck and $\frac{1}{2}$ bushel, 8 cents each; 1 bushel, 10 cents each; 2 bushels, 22 cents each.

HOW TO REMIT.—Remittances should be made by draft, Express Money Order, P. O. Money Order or Registered Letter.

We deliver by **PARCEL POST FREE** to any Postoffice in the United States all cash orders for Flower and Garden seeds at catalog prices, except Peas, Beans, Corn and Field Seeds. No seed delivered free unless order is accompanied with the cash. For postage on Peas, Beans, Corn, Field Seeds and All Merchandise, consult table on opposite page.

ON EVERY ORDER be sure to **SIGN YOUR NAME** and give your address **PLAINLY**, as we frequently receive orders lacking either or both; also give full shipping instructions, State if by freight or express and give route. This saves delay.

PRICES TO MARKET GARDENERS.—Market gardeners, and all purchasers of Seeds in large quantities, should submit us a list of their wants and we will name them special prices.

TIME FOR SOWING IN THE OPEN GROUND.

THESE DIRECTIONS apply to the vicinity of Baltimore and Philadelphia. South of this they should be sown earlier, and North later.

BEANS.—From 1st of May till August.

BEETS.—Soon as ground can be worked in spring.

CABBAGE.—For early use, sow in hot bed in February and transplant in April to open ground; for late use, sow in May or June.

CAULIFLOWER.—Sow about the same time as Cabbage. For late crop sow in June, and they will head up in cool weather, and escape injury from the heat.

CARROT.—For early, sow from 1st of April to middle of May, and for late crop in June or July.

CELERY.—Sow as soon as the ground is open in spring, and transplant in July.

CUCUMBER.—Sow about 1st of May for early, and for pickling, in July.

LETTUCE.—Sow as soon as ground can be worked in spring, and at intervals as desired.

MELONS.—Sow in May and June.

ONIONS.—Sow early as possible in spring.

PARSNIP.—Soon as ground can be worked.

PEAS.—Sow in March, and at intervals through the season, as desired.

PUMPKIN.—Plant in May or June.

RADISH.—Soon as ground is ready, and all through the season, at intervals.

SQUASH.—Soon as ground is warm.

TOMATO.—Sow in hot bed in March, and transplant about middle of May.

TURNIP.—For early use, in April; for main crop, July and August

TO COUNTRY MERCHANTS.

WE PUT UP VEGETABLE SEEDS in papers for the Country Trade in quantities to suit purchasers.

Our seeds are select and tested, and give satisfaction wherever used.

Beans, Peas, Corn, etc., in bulk, at lowest wholesale rates.

Write for special quotations in quantities.

Should you have placed your order for small papers for this year, we will be pleased to fill any shortage you may have, and solicit your patronage for another season.

HINTS ON TRANSPLANTING TREES.

The proper season for transplanting fruit trees is during the months of February, March and April in the spring, and October, November and December in the autumn.

PROPER AGE AND SIZE OF TREES FOR TRANSPLANTING.

Experience has taught observing planters that a small, young tree, set at the same time, will in a few years overtake and pass a large one, and continue more vigorous and productive. Large trees are necessarily or unavoidably more injured in digging than small ones. The latter can be moved with their system of roots almost entire.

NUMBER OF TREES AND PLANTS TO AN ACRE.

3 ft. each way...	4840	12 ft. each way...	302	33 ft. each way...	4
4 ft. each way...	2722	15 ft. each way...	193	35 ft. each way...	3
5 ft. each way...	1742	18 ft. each way...	134	40 ft. each way...	27
6 ft. each way...	1210	20 ft. each way...	108	45 ft. each way...	21
8 ft. each way...	680	25 ft. each way...	49	50 ft. each way...	17
10 ft. each way...	435	30 ft. each way...	48		

DISTANCE FOR PLANTING.

Std. Apple.....	33 to 40 feet each way.
Std. Pear and large-growing Cherry.....	20 " " "
Duke and Morello Cherry.....	20 " " "
Std. Plum, Apricot and Nectarine.....	15 to 20 " " "
Peach	20 " " "
Quince	12 " " "
Dwarf Pear	10 " " "
Currant, Gooseberry, Raspberry and Blackberry	4 to 5 " " "
Grapes	6 to 10 " " "

WEIGHT OF AGRICULTURAL SEEDS, PER BUSHEL, AND QUANTITY USUALLY SOWN PER ACRE.

Weight per Bushel.	Pounds. per Acre.
14 lbs. Awnless Brome	35 to 40 lbs.
60 " Alsike, alone	6 "
60 " Alfalfa or Lucerne	20 "
48 " Barley, broadcast	2 bus.
48 " Broom Corn, in hills..	6 to 8 qts.
48 " Buckwheat, broadcast..	1 bus.
21 " Crested Dog's Tail....	25 lbs.
20 " Creeping Bent	50 "
60 " Crimson Clover	15 to 20 "
56 " Corn, for soiling.....	1 to 2 bus.
24 " English Rye or Perennial Rye	50 lbs.
20 " Evergreen Lawn	3 to 4 bus.
56 " Flax, for seed	1 "
56 " Flax, for fibre.....	2 to 3 "
56 " Field Corn, in hills..	4 qts.
50 " German Millet	50 lbs.
48 " Hungarian Millet	45 "
44 " Hemp	22 "
20 " Italian Rye.....	50 "
14 " Kentucky Blue	38 "
22 " Meadow Fescue.....	50 "
7 " Meadow Foxtail	30 "
14 " Orchard Grass	42 "
32 " Oats, broadcast	2 to 2½ bus.
10 " Red Top, chaff.....	40 to 50 lbs.
14 " Red Top, un-hulled....	30 to 40 "
32 " Red Top, fancy.....	6 to 8 "
60 " Red Clover	15 "
56 " Rye, broadcast	1 bus.
12 " Sheep Fescue	30 lbs.
48 " Sorghum, drills	4 qts.
48 " Sorghum, broadcast ..	8 "
10 " Tall Meadow Oat.....	50 lbs.
45 " Timothy, alone	¼ bus.
.. " with other grasses ..	8 lbs.
.. { Together for an acre }	
.. { Red Clover	8 "
.. { Timothy	10 "
.. { Red Top	14 "

WEIGHT OF AGRICULTURAL SEEDS, QUANTITY, ETC.—Continued.

Weight per Bushel.	Pounds. per Acre.
.. lbs Teosinte, in hills.....	1 to 3 lbs.
60 " Vetches, broadcast	1 bus.
14 " Wood Meadow	30 lbs.
60 " White Clover, alone....	6 "
.. " White Clover, with other grasses	3 "
60 " Wheat, broadcast	1½ to 2 bus.
.. " Wheat, in drills.....	1½ to 2 "

VEGETABLE SEED TABLE

THE QUANTITY OF SEED USUALLY SOWN TO AN ACRE.

Asparagus	5 lbs.
Beans, dwarf in drills.....	½ to ¾ bus.
Beans, pole, in hills.....	8 to 10 qts.
Beet, in drills	4 to 6 lbs.
Cabbage, in beds, to transplant ..	¼ lb.
Carrot, in drills.....	2 to 3 lbs.
Celery, to transplant.....	½ lb.
Corn, in hills (sugar).....	4 qts.
Kale	4 to 6 lbs.
Melon, musk	1½ to 2 "
Melon, water	2 to 3 lbs.
Mustard, broadcast	12 to 16 "
Mangelwurzel	4 to 6 lbs.
Onions, in drills to make large onions	6 to 8 lbs.
Onions Seeds, for small sets.....	40 to 60 "
Parsnips, in drills.....	4 to 6 "
Peas, early, in drills.....	1¼ bus.
Peas, Marrowfat, in drills.....	1¼ "
Peas, broadcast	2 to 3 "
Potato, cut tubers in drills.....	8 to 11 "
Radish, in drills	6 to 8 lbs.
Radish, broadcast	10 "
Salsify, in drills	6 to 8 lbs.
Spinach, in drills.....	12 to 20 "
Squash, bush varieties, in hills. 4 to 6 "	
Squash, running varieties, in hills	3 to 4 "
Turnip, in drills.....	1 lb.
Turnip, broadcast	2 lbs.
Tomato, to transplant.....	¼ lb.

QUANTITY OF SEEDS REQUIRED FOR A GIVEN NUMBER OF PLANTS, NUMBER OF HILLS, OR LENGTH OF DRILLS.

Asparagus	1 oz. to 50 ft. drill
Beet	1 oz. to 50 ft. drill
Celery	1 oz. to 100 ft. drill
Carrot	1 oz. to 100 ft. drill
Endive	1 oz. to 150 ft. drill
Egg Plant	1 oz. to 300 ft. drill
Lettuce	1 oz. to 150 ft. drill
Okra	4 oz. to 100 ft. drill
Onion	1 oz. to 100 ft. drill
Onion Sets, small.....	1 qt. to 100 ft. drill
Parsley	1 oz. to 150 ft. drill
Parsnip	3 oz. to 100 ft. drill
Radish	2 oz. to 100 ft. drill
Salsify	1 oz. to 70 ft. drill
Spinach	2 oz. to 100 ft. drill
Turnip	1 oz. to 150 ft. drill
Peas	1 qt. to 100 ft. drill
Dwarf Beans	1 qt. to 100 ft. drill
Leek	1 oz. to 100 ft. drill
Pole Beans.....	1 qt. to 150 hills
Corn	1 qt. to 200 hills
Cucumber	1 oz. to 50 hills
Watermelon	1 oz. to 30 hills
Muskmelon	1 oz. to 60 hills
Pumpkin	1 oz. to 40 hills
Early Squash	1 oz. to 50 hills
Marrow Squash	1 oz. to 16 hills
Cabbage, 1 oz. seed will produce 2,000 plants	
Cauliflr., 1 oz. seed will produce 2,000 plants	
Celery, 1 oz. seed will produce 3,000 plants	
Egg Plant, 1 oz. seed will produce 1,000 plants.	
Lettuce, 1 oz. seed will produce 3,000 plants	
Pepper, 1 oz. seed will produce 1,000 plants	
Tomato, 1 oz. seed will produce 1,500 plants	

GRIFFITH & TURNER CO.

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Branch House, 366 N. GAY St.
BALTIMORE, MD., U. S. A.

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GRIFFITHS & TURNER CO. gives no warranty, expressed or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants they send out, and they will not be in any way responsible for the crop. If purchaser does not accept goods on these terms, they are at once to be returned. All claims must be made within five (5) days after receipt of goods.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

AMOUNT ENCLOSED

Your Name..... **Express Money Order**

Post-office Route No. Bank Draft , . .

County State Cash, Notes and Silver

Express or Freight Office } Date..... Postage Stamps . . .
(2c. stamps preferred.)

QUANTITY.	ARTICLES WANTED.	PRICE.
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1916 GARDEN CALENDAR

JANUARY

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Draw a diagram of the garden. Locate the crops which take the most room (corn, potatoes, vines of the cucumber family), then locate the other crops, grouping them as follows: Peas, potatoes, beans; asparagus, rhubarb, herbs; parsnips, turnips, salsify; beets, carrots, onions; cabbage, cauliflower; okra, tomatoes, egg plant, peppers; spinach, Swiss chard, radish, salad plants. Vegetables should be planted in rows. Plan a hardy border. (See September.) **Sow Indoors or in Hotbed January 15:** Foxglove, pansy, Iceland poppy.

Order Seeds. Quantity of Seed for a Family of Eight: Artichoke, Brussels sprouts, carrot, turnip, radish, 1 oz.; onion, spinach, okra, 2 oz.; cauliflower, egg plant, peppers, 2 pkgs.; cucumbers, 25 hills, 1 oz.; squash, 20 hills, 1 oz.; string beans, 2 qts.; lima beans, 1 qt.; peas, 4 qts.; corn, 3 pts. (3 plantings); lettuce, 1 oz. **Buy Garden Tools:** Wheelbarrow, roller, watering-can, sprayer, spade, fork, wheel hoe, common hoe, weeder, rake, scythe, sickle, trowel.

When to Sow: Early crops between March 15 and May 1. Main crops about May 5. Cover seeds twice or three times their thickness. Distances: Drills from 1 to 2 feet apart; corn, 3 feet; vines of the cucumber family, 4 feet; tomatoes, 3 feet. **Sow Out of Doors Between March 15 and April 1:** Beets, cabbage, carrots, kohlrabi, lettuce, onions, parsley, parsnips, radish, salsify, spinach, turnips, sweet-peas (height, 3 feet, many colors). **Sow Indoors March 1 or in Hotbed:** Artichoke, cabbage, endive, egg plant, lettuce, peppers, tomato. **Sow Indoors March 1 or in Hotbed:** Sweet-allysum, balsam, calendula, coreopsis, nasturtium, petunia, sweet-william, zinnia.

Sow Out of Doors April 15: Beets, cabbage, carrots, Swiss chard, celery, corn salad, garden cress, endive, lettuce, okra, onion, parsley, parsnips, peas, radish, salsify, spinach, sage, thyme, turnip. **Sow Out of Doors April 15:** Sweet-allysum, calendula, candytuft, corn-flowers, carnation, forget-me-not, larkspur, marigold, mignonette, Iceland poppy, snapdragon, sweet-william, zinnia. Set out roots of dahlias, cannas, gladiolas, elephant ears, tube roses and plants of hardy chrysanthemums.

Sow Out of Doors May 15: Brussels sprouts, cauliflower, beets, beans, cabbage, carrots, corn salad, chicory, cucumbers, endive, tomatoes, lettuce, lima beans, muskmelon, peas, peppers, potatoes, pumpkin, radish, sweet corn, Swiss chard, spinach, squash, sage, watermelon. **Sow Out of Doors May 15:** China aster, balsam, coreopsis, cosmos, foxglove, morning-glory, nasturtium, petunia, Phlox Drummondii, sunflower. Vegetables and flowers should be transplanted from hotbed to garden about May 10. Flowering shrubs should be pruned immediately after they have blossomed. Fruit trees should be sprayed when the blossoms fall.

Sow Early in June: Beans, beets, cucumbers, lettuce, peas, radish, sweet corn. Ten-week Stock, pansy. Roses should be grown on a southern exposure. The soil should be a rich loam. Set out ever-blooming roses the middle of April; Hybrid, Perpetual and Hardy Roses the middle of October. Rose bushes should be set out 2 feet apart, sprayed in April and May, and pruned in March. The rose-bed should be well covered the last of November, and uncovered as soon as danger of frost is past. From the numerous varieties on the market, the following roses are selected: Pink Mamam Cochet, American Beauty, My Maryland, Rhea Reid, Killarney, Helen Gould, Ulrich Brunner, Vicks' Caprice, Meteor, Magna Charta, Paul Neyron, La France, Kaiserin Augusta Victoria, Bridesmaid, Baby Rambler (climber), Tausendschon (climber), Dorothy Perkins (climber), Empress of China (climber), Philadelphia (climber), Crimson Rambler (climber).

First Week in July: Beans, carrots, lettuce, radish, sweet corn, turnips. **Bordeaux Mixture** is excellent for all kinds of blight. **Arsenate of Lead** will destroy insects that chew. **Directions:** 2 to 3 pounds to 50 gallons of water. **Lemon Oil Co.'s Standard Insecticide** will kill plant lice of every description.

August 1, last planting of beans and peas. Buy a High-grade Complete Fertilizer for general use if unable to compound your own fertilizers. Quantity, 500 lbs. to the acre, or 1 oz. to the square yard. Where a rich soil is required, 1250 lbs. to the acre, or 4 oz. to the square yard. In artificial fertilizers there are no weed seeds. **General Hints:** **Bone-Meal** is excellent for lawn, garden, orchard; **Wood Ashes** for lawn (sparingly), garden, orchard; **Air-Slacked Lime** for heavy, damp soil; **Cottonseed Meal** for lawn (scatter early in April; **Muriate of Potash** for apple trees and peach trees (2 to 3 lbs. for a full-grown tree). **Bone-Meal and Nitrate of Soda** in equal parts for asparagus. **In the Flower Garden** in the spring a handful of bone-meal may be worked into the soil about a plant with marked results. In midsummer, if flowers are few, rake in some nitrate of soda and a little bone-meal. **Liquid Manure** is a good fertilizer for roses.

Set Out Bulbs Early in Fall: Phlox (perennial), peonies. Plant spring-flowering bulbs: crocus, daffodils, lily of the valley, narcissus, snowdrops, tulips, hyacinths. Spring-flowering bulbs should be planted about 4 inches deep. Plant bulbs of German Iris and Japanese Iris. **In the Window Garden:** Roman hyacinths, Chinese sacred lilies, narcissus and crocuses can be grown in sand and water.

Some Flowering Shrubs for the Home Garden: Forsythia, hydrangea paniculata grandiflora, Japanese snowball, Japanese quince, lilac, magnolia, rhododendron maximum, Rose of Sharon, Philadelphus syringa grandiflorus, Spiraea, Weigelia. Vines: Boston ivy, crimson Rambler, clematis paniculata (also large-blossomed purple and white varieties), English ivy, honeysuckle, hops, Japanese gourd (annual), passion flower (annual), trumpet-creeper, Virginia creeper, wistaria.

Books for the Farmer and Gardener: "American Farm Book," by R. F. Allen; "Farmer's Encyclopedia of Agriculture," by E. V. Wilcox and C. B. Smith; "Ten Acres Enough"; "Book of Vegetables and Garden Herbs," by A. A. French; "Cyclopedia of American Horticulture," by L. H. Bailey (four volumes); "American Horticultural Manual," by J. L. Budd and N. E. Hanson (two volumes); "Horticulturist's Rule Book," by L. H. Bailey; "Principles of Plant Culture," by E. S. Goff; "Bookkeeping for Farmers," by T. C. Atkeson. Periodicals: Country Life in America and The Garden Magazine.

JULY

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AUGUST

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MARCH

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MAY

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JUNE

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Griffith & Turner Co.'s

ANNUAL

1916--CATALOGUE--1916

BEST GOODS

LOW PRICES

PARCEL POST RATES.

Weight.	Distance not over 150 miles.	Over 150 and not over 300 miles.	Over 300 and not over 600 miles.	Over 600 and not over 1000 miles.	Over 1000 and not over 1400 miles.
1 pound	\$.05	\$.06	\$.07	\$.08	\$.09
2 pounds06	.08	.11	.14	.17
3 pounds07	.10	.15	.20	.25
4 pounds08	.12	.19	.26	.33
5 pounds09	.14	.23	.32	.41
6 pounds10	.16	.27	.38	.49
7 pounds11	.18	.31	.44	.57
8 pounds12	.20	.35	.50	.65
9 pounds13	.22	.39	.56	.73
10 pounds14	.24	.43	.62	.81
11 pounds15	.26	.47	.63	.89
12 pounds16	.28	.51	.74	.97
13 pounds17	.30	.55	.80	1.05
14 pounds18	.32	.59	.83	1.13
15 pounds19	.34	.63	.92	1.21
16 pounds20	.36	.67	.93	1.29
17 pounds21	.38	.71	1.04	1.37
18 pounds22	.40	.75	1.10	1.45
19 pounds23	.42	.79	1.16	1.53
20 pounds24	.44	.83	1.22	1.61
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For other seed and merchandise rate, consult table on this page. **POISONS CANNOT BE SENT BY MAIL.**

By writing out your order on the Order Sheet sent with each Catalogue you will greatly facilitate our work. Extra Order Sheets sent on application. Be sure to sign your name in full, giving post-office and shipping point. If you have rural delivery, give name and number of route. If you want goods shipped by boat or railroad, state which you prefer, and what line to send by.

Griffith & Turner Co. give no warranty, expressed or implied, as to description, quality, productiveness, or any other matter, of any Seeds, Bulbs or Plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

FREE DELIVERY BY PARCEL POST.

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NOTES ABOUT PARCEL POST—Poisons and Insecticides Cannot be Sent by Mail. Weight Limit in First and Second Zones, 50 lbs.; in Other Zones, 20 lbs. Bulk Limit (Measurement Around Package Both Ways) in all Zones, 72 Inches. Liquids and Goods Packed in Glass Should be Sent by Express.

OUR SEEDS are the BEST that can be obtained anywhere, because we are as careful in our selection as it is possible for anyone to be, and are constantly on the lookout for the best of everything, but will not put on the market anything until it has been thoroughly tried and proved.

No matter what others may ask for their seeds, better quality cannot be obtained anywhere, as our constantly and rapidly increasing trade does and will testify.

Our Seeds are ALL TESTED thoroughly before being placed on the market.

HOW TO ORDER TO AVOID DELAY—All orders from unknown correspondents should be accompanied with the cash. Money can be safely sent by check, post-office order, express money order, registered letter or by express, or postage stamps for small amounts. We prepay postage on all orders of Vegetable and Flower Seeds, by the packet, ounce, quarter pound and pound at prices named in this Catalogue. On Beans, Peas and Corn, 6c. per pint or 8c. per quart should be added to Catalogue prices to pay postage. On each additional quart add 2c. per quart for distance not over 150 miles from Baltimore. SEEDS BY EXPRESS are far more satisfactory than Parcel Post, because of quicker transit and more careful handling. To points beyond the Third Zone it is cheaper to ship by Express than by Parcel Post.

RELIABLE VEGETABLE SEEDS OF QUALITY **ARTICHOKES**



Globe or French Artichoke.

This is a very nice vegetable to eat. Some prefer it cooked like asparagus—that is, take the flower head before it begins to open and cook much the same way.

Sow in March in hotbed and when danger of frost is over transplant in very rich, well-drained soil in rows four feet apart and two feet apart in the row. The plants can be raised in seed beds out of doors, but in that case will not be likely to produce heads the first year. Late in the fall cut off the old tops and thoroughly protect the crowns with leaves or straw to prevent severe freezing.

The second year thin the starting shoots to three of the best, which will commence to form heads about June 1st. The plants may also be blanched by cutting back the stems close to the ground in June, the rapidly growing shoots which then start up may be tied and blanched like celery. As artichoke plants do not yield satisfactorily after three or four years, it is best to start a new plantation every three years.

LARGE GREEN GLOBE.—A favorite French vegetable of medium height with rather deep green leaves. The buds or flower-heads are green, nearly round or somewhat elongated. Pkt., 5c. Oz., 40c.

JERUSALEM ARTICHOKE ROOTS.—Used for table and stock feeding. The tubers roasted or boiled and served with butter, well seasoned, make a dish, some think, greater than Potatoes. However, their greatest value is for hogs. Plant and cultivate like potatoes. Peck, 75c. Bushel, \$2.50.

ASPARAGUS **GERMAN, SPARGEL**

This is one of the earliest spring vegetables, and should be in universal use. Many persons think it is difficult to grow, but we consider this a mistake, and believe it can be produced as cheaply and easily as any on the list. Sow the seed in the seed bed late in the fall or the early spring, as soon as the ground can be worked, in drills one foot apart, covering the seed about one inch deep. When the plants are four or five inches high, great care should be taken to keep the bed free of weeds. One ounce of seed will sow forty feet of row.

PALMETTO.—A very early maturing variety, producing an abundance of very large, deep green shoots.

Seed—Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c. 5 lbs., \$2.00.

MAMMOTH WHITE.—Produces large, white shoots six inches above the surface; fine quality. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

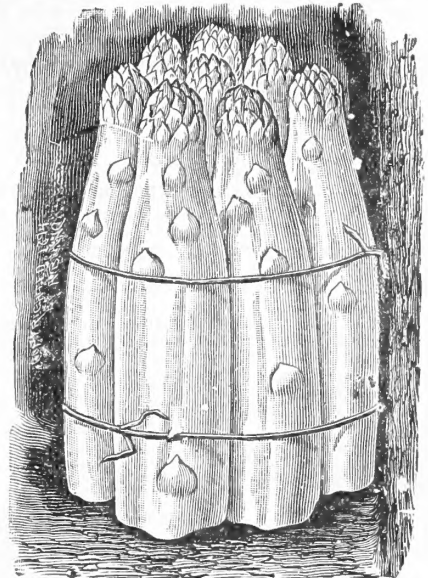
BARR'S MAMMOTH.—The stalks are very large, and retain their thickness completely up to the top of the shoots; light in color.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c. 5 lbs., \$2.50.

CONOVER'S COLOSSAL.—A mammoth, green sort of the largest size and of good quality. One of the best known and most generally cultivated varieties.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c. 5 lbs., \$2.50.

GIANT ARGENTUIL.—A French variety. Stalks large and thick. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

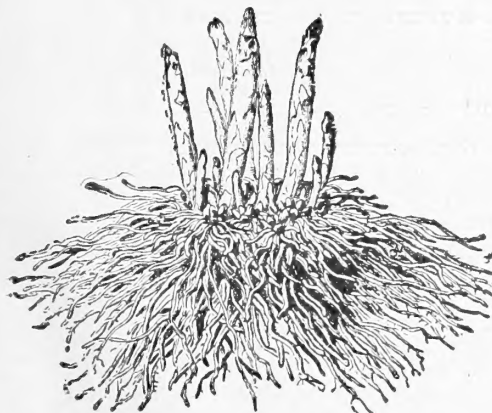


Palmetto Asparagus.

ASPARAGUS ROOTS.—A saving of one to two years is effected by planting roots. A bed 12x40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family. 7260 roots will plant an acre. Select good loamy soil, plow deep, put in good quantity of manure and 100 pounds kainit to 1000 square feet of bed. Incorporate thoroughly, make a trench eight inches deep, set plants nine inches apart. In field culture rows are placed four feet apart.

	Per 100	Per 1000		Per 100	Per 1000
Barr's Mammoth.....	\$.75	\$5.50	Palmetto (Green)	\$.70	\$5.00
Colossal (Green).....	.70	5.00	Mammoth White .....	.75	5.50

Prices, by Express, Not Prepaid.



Asparagus Roots.

ASPARAGUS KNIFE



Made of solid steel; see the cutting point. Price, 30c. each.

RAFFIA

The best material for tying plants, vines, etc. Per pound, 20c. 10 lbs., \$1.50.

ASPARAGUS BUNCHER



This Asparagus Buncher is adjustable with patented clamp. Price \$1.75 each.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

B E A N S

One Quart Will Plant 200 Feet of Drill.

DWARF OR BUSH WAX-PODDED

Select light, warm soil and plant when danger from frost is past in the spring, in drills 2 to 2½ feet apart, dropping the beans about 6 to 8 inches apart in the drills, and cover 2 inches deep. A succession of sowings can be made from the first week in May until August.

Add 6 cents per pint, or 8 cents per quart, on all Beans if to be sent by mail. For larger quantities see table on page 2. Crop very short, order early.

IMPROVED RUSTPROOF GOLDEN WAX.

This is the earliest, handsomest and hardiest of all the Wax Beans. The pods are straight, long and thicker than the ordinary Golden Wax, much superior in quality, absolutely rust-proof and sure to become the favorite Wax Bean; in fact, it has already gained great popularity with growers.

Pt., 25c. Qt., 50c. Pk., —. Bus., —.

GOLDEN-EYED WAX.

This Bush Bean is very early; the vine grows vigorously to about one and a half feet high, holding pods off the ground. The pods are handsome, long, straight and flat, remarkably free from rust.

Pt., 25c. Qt., 50c. Pk., —. Bus., —.

DAVIS' KIDNEY WHITE WAX.

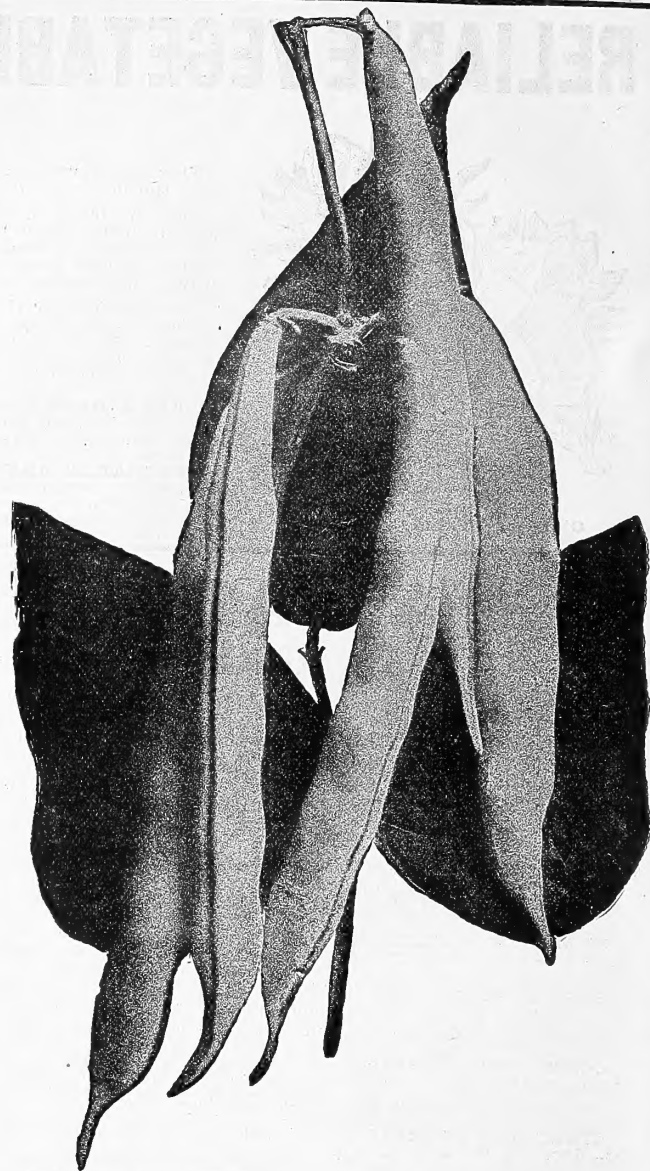
Vigorous grower, bears abundantly; long, white, handsome pods, which are crisp and tender if gathered when young.

Pt., 25c. Qt., 50c. Pk., —. Bus., —.

DWARF PROLIFIC BLACK WAX.

Yellow pod, a very superior snap sort, ripening among the first earlies and having the best characteristics. Very tender.

Pt., 25c. Qt., 50c. Pk., —. Bus., —.



IMPROVED RUSTPROOF GOLDEN WAX.

CURRIE'S RUSTPROOF BLACK WAX.

For earliness and freedom from rust it is at the head of the Wax Bean family. Habit, upright and robust, holding the pods well from the ground. Pods long, straight, flat and very meaty, of a beautiful color; quality not surpassed, and for productiveness it is unequalled.

Pt., 25c. Qt., 50c. Pk., —. Bus., —.

WARDWELL'S KIDNEY WAX BEAN.

This is one of the best wax sorts. The vines are remarkably vigorous, hardy and productive. The pods are very large, smooth, showy, tender, perfectly stringless and of unusually fine quality.

Pt., 25c. Qt., 50c. Pk., —. Bus., —.

NEW PENCIL POD WAX BEAN.

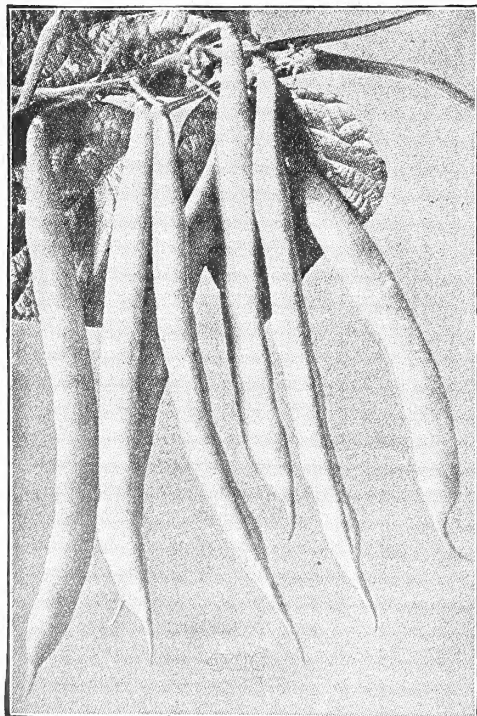
Very early and productive. Pods long, straight and handsome; color, light golden yellow; strong and vigorous bush. One of the best varieties.

Pt., 25c. Qt., 50c. Pk., —. Bus., —.

HODSON WAX.

The most vigorous wax podded bean yet introduced. The yield of large, handsome pods is enormous. Its dense foliage protects the pods, so that their color is clear creamy white. Pods very long, straight or slightly curved, flat, but fleshy, quite stringless and of very good quality. While late in maturing, the remarkable vigor of the plant is a safeguard against blight and other diseases.

Pt., 25c. Qt., 50c. Pk., —. Bus., —.



CURRIE'S RUSTPROOF GOLDEN WAX.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

BEANS GREEN-PODDED BUSH

ONE QUART WILL PLANT 200 FEET OF DRILL.

The green podded dwarf sorts are perhaps the most important class of garden beans and are probably more extensively used for snaps than the wax podded varieties, although the latter are considered by many as the more attractive in appearance. The green podded sorts are as a rule the more productive, being less sensitive to unfavorable conditions of soil and climate and of late years have been less susceptible to bean diseases.

G. & T. CO.'S EXTRA EARLY RED VALENTINE (Specialty).—Ten days earlier than the ordinary Red Valentine Bean, and therefore the best for truckers and market gardeners. It is without doubt the very best and earliest green Snap Short Bean.

The habit of the vine is dwarfed and very uniform. Color of pods light green, round, curved, succulent, prolific, continuing long in edible condition. **Pt., 25c. Qt., 50c. Pk., \$2.50. Bus., \$10.00.**

EARLY RED VALENTINE.—An old standard variety more generally used than other snap beans. The vine is dwarf and uniform. Pods green, round and curved. **Pt., 25c. Qt., 50c. Pk., \$2.50. Bus., \$10.00.**

BLACK VALENTINE.—This excellent extra early variety has perfectly round, straight pods of excellent quality. It is suitable both for early and late planting, being extremely hardy. A most desirable sort for the market gardeners, owing to its enormous yielding qualities, large and handsome appearance. **Pt., 25c. Qt., 50c. Pk., \$2.50. Bus., \$10.00.**

G. & T.'S IMPROVED EXTRA EARLY RED VALENTINE BEANS.

EXTRA EARLY BOUNTIFUL (Flat Green Pod).

A prolific and continuous bearer. The first in the spring, the last in the fall. Absolutely stringless, very tender and of delicious flavor.

Pt., 25c. Qt., 50c. Pk., \$2.50. Bus., \$10.00.

EXTRA EARLY REFUGEE.

It is similar in every respect to the ordinary Refugee, but is nearly two weeks earlier. It is enormously prolific, and from its earliness is almost certain to produce a crop, no matter how unfavorable the season; is rapidly becoming a favorite sort, as it matures equally early with Red Valentine and has that beautiful silvery green color in the pods that is so much desired.

Pt., 25c. Qt., 50c. Pk., \$2.50. Bus., \$10.00.

REFUGEE, or 1000 TO 1.

A medium to late variety, very productive and largely grown for pickling; handsome and tender pods. **Pt., 25c. Qt., 50c. Pk., \$2.50. Bus., \$10.00.**

DWARF HORTICULTURAL (Cherry).

Very green podded sort, used as a shell bean, and for this purpose is one of the finest in general use; long a favorite with those who use a shell bean in a green state.

Pt., 25c. Qt., 50c. Pk., \$2.50. Bus., \$10.00.

BEST OF ALL.

One of the most valuable green podded sorts for family or market use. Pods are six inches long, very fleshy, succulent, of rich flavor; produced early and abundantly.

Pt., 25c. Qt., 50c. Pk., \$2.50. Bus., \$10.00.

EARLY MOHAWK.

This exceptionally hardy sort can be planted earlier than others and in this way will often furnish beans fit for use before any other green podded variety. The plants are large and stout, with large coarse, dark green leaves. The pods are medium dark green, long, six to six and one-half inches, straight, coarse, flat, with long tapering points.

Pt., 25c. Qt., 50c. Pk., \$2.50. Bus., \$10.00.

LONG YELLOW 6 WEEKS.

The plants of this hardy variety, large, vigorous, erect and very productive. The leaves are large. The pods are long, about six inches, straight, flat, handsome, rather light green and when young are of good quality for snaps.

Pt., 25c. Qt., 50c. Pk., \$2.50. Bus., \$10.00.

BURPEE'S NEW STRINGLESS GREEN POD.

One of the earliest varieties, pods round and full, absolutely stringless and of beautiful fleshy appearance; quality excellent. The only green pod bean of which the pods never develop any strings.

Pt., 25c. Qt., 50c. Pk., \$3.50. Bus., \$14.00.

GIANT STRINGLESS GREEN POD.

Resembles very much the old Valentine. The plants are of strong growth, very productive; pods 5 inches long, light green, slightly curved, very meaty, brittle and stringless at all stages and of mild flavor.

Pt., 25c. Qt., 50c. Pk., \$3.50. Bus., \$14.00.

WHITE MARROWFAT.

Extensively grown for sale as a dry bean for winter use.

Qt., 40c. Pk., \$1.50. Bus., \$5.00.

WHITE NAVY, or SMALL PEA BEAN.

A well-known variety for field culture; very prolific.

Qt., 40c. Pk., \$1.50. Bus., \$5.00.

BLACK VALENTINE BEANS.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

BUSH LIMA BEANS

ONE QUART WILL PLANT 100 FEET OF DRILL.

Plant in drills two to three feet apart, dropping the beans three to four inches apart and covering one and one-half to two inches deep. If planted in hills, make the hills two to three feet apart one way and two to two and one-half feet the other and plant four beans in a hill. Hoe often but only when the leaves are dry.



BURPEE'S BUSH LIMA.

Set the poles 3 to 4 feet apart and plant 6 to 8 beans, with the eyes downward, around each pole, thinning to 4 healthy plants when they are up. They require the same soil and treatment as the dwarf varieties.

When Beans are sent by mail add, for postage, 6c. per pint, 8c. per quart. For larger quantities refer to table on page 2.

FORDHOOK BUSH LIMA.—An improved dwarf Lima of the Kumerle type. The plant is vigorous and erect growing, bearing well above the ground. The pods are produced in large clusters, each containing three to five large beans of exceptionally fine quality. Much more productive than Kumerle and matures earlier. We consider this a decided acquisition to the dwarf Lima, possibly the best of the class. **Pt., 20c. Qt., 40c. 4 Qts., \$1.50. Bus., \$10.00.**

BURPEE'S IMPROVED BUSH LIMA.—Will outyield Burpee's Bush Lima by fully one-third. This greater yield is due to the increased size of both pod and beans. The dried beans are very handsome, and generally show a greenish-white coloring, while dried beans of the Burpee Bush Lima, like those of the Large Pole Lima, are pure white. **Pt., 20c. Qt., 40c. 4 Qts., \$1.50. Bus., \$10.00.**

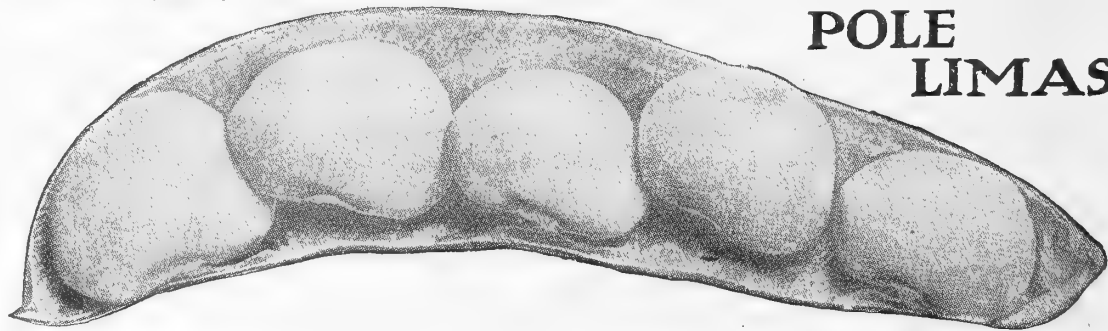
BURPEE'S BUSH LIMA.—Bushes grow 18 to 20 inches high, stout growth and always erect, yet branching so vigorously that each plant develops into a magnificent circular bush 2 to 3 feet in diameter; an immense yield, each bush bearing 50 to 200 handsome, large pods, well filled. **Pt., 20c. Qt., 40c. Pk., \$2.00. Bus., \$8.00.**

KUMERLE, or DREER'S BUSH LIMA.—Dwarf variety of Dreer's Improved Lima, which has been fixed in its character of a bush bean; very prolific, single plants often producing 150 to 200 pods. Equal in quality and tenderness to Dreer's Pole Lima. **Pt., 20c. Qt., 40c. Pk., \$2.50. Bus., \$10.00.**

DREER'S WONDER BUSH LIMA.—Very desirable on account of earliness, productiveness; of strong, upright growth, and are completely covered with large pods, many of which contain four beans, which are fully as large as the Pole Limas. The beans are flat in shape and of excellent quality. **Pt., 20c. Qt., 40c. Pk., \$2.50. Bus., \$10.00.**

HENDERSON BUSH LIMA.—These are very valuable, because they do not need poles, and, being so dwarf, can be planted close together. They are very early and prolific, continuing to bear until frost. **Pt., 20c. Qt., 40c. Pk., \$2.00. Bus., \$7.50.**

POLE LIMAS



CARPENTERIA POLE LIMA.—The newest large pole Lima; enormously prolific; early green and delicious flavor. **Pt., 20c. Qt., 40c. Pk., \$1.75. Bus., \$7.00.**

HENDERSON'S EARLY LEVIATHAN.—This is the very earliest. It will not only give large Lima beans earlier than any other strain, but is also much more productive, both early and throughout the season. It is a strong grower, clinging well to the poles, and is a sure cropper. The pods hang out from the foliage in large clusters and contain three or four and sometimes five large beans to the pod. **Pt., 20c. Qt., 40c. Pk., \$2.00. Bus., \$8.00.**

KING OF THE GARDEN LIMA.—This bean has met with enormous sales the past few seasons. They are vigorous growers, setting their beans early at bottom of pole, producing continuously to the end of the season. They are more prolific than the ordinary Lima, bearing pods 5 to 7 inches long, in clusters of 4 and 5, with 5 or 6 beans in a pod. **Pt., 20c. Qt., 40c. Pk., \$1.75. Bus., \$7.00.**

EXTRA LARGE WHITE LIMA.—This is a splendid sort, and takes a leading place with growers, because of its many excellent qualities. As a shell bean surpasses all in quality, and is the favorite with most people. **Pt., 20c. Qt., 40c. Pk., \$1.75. Bus., \$7.00.**

FORD'S MAMMOTH POLE LIMA BEAN.—The pods grow to an average length of 8 inches, are produced in great clusters, with from 5 to 7 beans per pod of most excellent quality for using either green or dry. The vines grow vigorously, setting the beans early at the bottom of the pole, and continue in bearing up to frost. **Pt., 20c. Qt., 40c. Pk., \$1.75. Bus., \$7.00.**

EXTRA EARLY JERSEY LIMA.—This variety is two weeks earlier than other sorts; the pods are large and numerous, making it a very profitable sort to grow. **Pt., 20c. Qt., 40c. Pk., \$1.75. Bus., \$7.00.**

SEIBERT'S LARGE EARLY.—A very early and prolific strain of the Large Lima. The vines begin bearing pods considerably earlier than the regular strains of Large Limas. While the pods are only of medium length, they are well filled, containing 3 and 4 large, fleshy beans, which are extremely tender and fine in flavor. **Pt., 20c. Qt., 40c. Pk., \$1.75. Bus., \$7.00.**

DREER'S IMPROVED OR CHALLENGE POLE BEAN.—This popular bean is considered by many growers superior to all others in quality and productiveness. When green it is as large as the Large Lima, thicker, sweeter and more tender and nutritious, remaining green in the pod for a long time after maturing. **Pt., 20c. Qt., 40c. Pk., \$1.75. Bus., \$7.00.**

CAROLINA OR SIEVA.—A seedling variety of Large White Lima, with small pods, usually about 2 inches long. A little earlier and hardier. **Pt., 20c. Qt., 40c. Pk., \$1.75. Bus., \$7.00.**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

BEANS—POLE OR RUNNING

These are of strong running growth, and need stout poles on which to climb. They require a longer season in which to mature than do the bush varieties, but by reason of their stronger growth are more productive, and growing on poles are more easily gathered.

MARYLAND WHITE.—This new White Pole Bean is destined to take its place as one of the best beans ever grown for general purposes. Its thick, meaty, green pods are very tender, rich in flavor, and produced in great abundance. It is equally valuable as a snap or shell bean. **Pt., 25c. Qt., 50c. Pk., \$3.00. Bus., \$12.00.**

LAZY WIFE.—Large pale green pods, very thick meated, stringless, rich, tender and buttery; ripens early; clings well to the pole; enormously productive; splendid either as a snap or shell bean. **Pt., 25c. Qt., 50c. Pk., \$3.00. Bus., \$12.00.**

KENTUCKY WONDER, OR OLD HOMESTEAD.—A very prolific sort, bearing its pods in large clusters; pods green, often reaching 9 to 10 inches in length, nearly round when young, and very crisp. **Pt., 20c. Qt., 35c. Pk., \$2.00. Bus., \$8.00.**

SPECKLED HORTICULTURAL, OR WREN'S EGG.—An old favorite for both snap-shorts and dry beans. **Pt., 25c. Qt., 50c. Pk., \$1.75. Bus., \$7.00.**

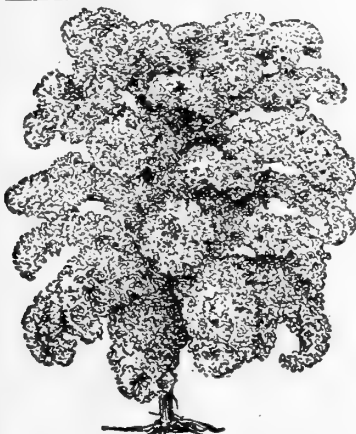
CREASE BACK, OR FAT HORSE.—A well-known and highly esteemed Southern variety; very productive; forms full, round pods; fleshy; stringless. **Pt., 25c. Qt., 50c. Pk., \$1.75. Bus., \$7.00.**

SPECKLED CUT-SHORT, OR CORN HILL.—An old variety, very popular for planting among corn; pods short, cylindrical and tender. **Pt., 25c. Qt., 50c. Pk., \$2.00. Bus., \$8.00.**

DUTCH CASE KNIFE.—Vines moderately vigorous, climbing well; may be used for a corn-hill bean; pods long, flat, irregular green, but becoming cream white. **Pt., 25c. Qt., 50c. Pk., \$2.00. Bus., \$8.00.**



Kentucky Wonder Pole Beans.



BORECOLE.

BROCCOLI

(German, Spargel Kohl.)

1 Ounce of Seed to 100 Yards of Row.

The heads resemble somewhat a coarse cauliflower and the culture is the same as for that vegetable. Broccoli is well adapted only to those sections where the season is long, cool and rather moist. One of the most valuable features is that it withstands greater extremes of temperature than cauliflower.

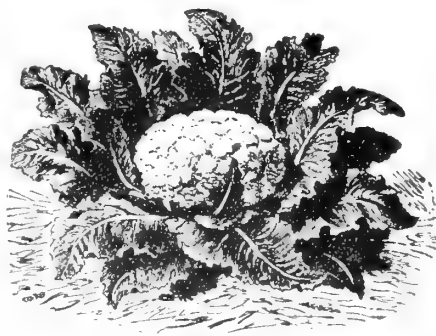
EARLY PURPLE CAPE.—Large, compact. **Pkt., 10c. Oz., 40c.**

LARGE EARLY WHITE.—Head white, like cauliflower; the best. **Pkt., 10c. Oz., 40c.**

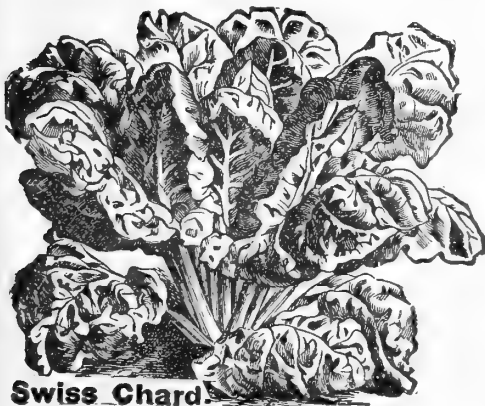
BORECOLE

This is often called Broccoli by market gardeners, but belongs to the Kale family. Very spreading in habit and beautifully curled.

Seed should be sown in May and transplanted in July, in the open field and treated same as Savoy Cabbage. **Pkts., 5c. and 10c. Oz., 15c. 1/4 lb., 50c. Lb., \$1.50.**



BROCCOLI.



Swiss Chard.

SWISS CHARD.

SWISS CHARD

(Sea Kale or Spinach Beet.)

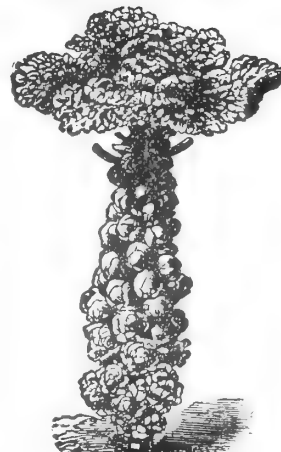
This kind of beet is grown exclusively for the numerous, fleshy, tender leaves and leaf stalks, which are superior to those of other beets for use as greens. Later in the season the wax-like leaf stems are cooked like asparagus or are pickled. This variety we offer has large, broad, undulated leaves, and remarkably broad stalks and midribs or chards. It is well worthy of a place in the home garden as well as for market use. **Pkt., 5c. Oz., 10c. 2 Oz., 20c. 1/4 Lb., 30c. Lb., \$1.00.**

BRUSSELS SPROUTS

(German, Gruener Kopfkohl.)

1 Ounce of Seed to 100 Yards of Row.

Brussels Sprouts are used in the fall and early winter and by some considered more tender and delicious than any cabbage. The plant resembles the cabbage, the edible part being the numerous very small heads or sprouts an inch or two in diameter formed on the stalk at each leaf joint. The culture is the same in all essentials as for cabbage, except the leaves should be broken down in the fall to give the little heads more room to grow. **Pkts., 5c. and 10c. Oz., 20c. 1/4 lb., 60c. Lb., \$2.00.**



Brussels Sprouts.

BEETS

One Ounce of Seed Will Sow One Hundred Feet of Drill

Select a deep, rich sandy loam and manure with well decomposed compost or a good chemical fertilizer. Sow in drills, 14 to 16 inches apart, and cover 1 inch deep. When the young plants appear, thin to 4 or 5 inches apart. For early use, sow as soon as the ground can be worked in the spring; for autumn use, about the middle of May, and for winter use, during June or July, according to the variety—the long varieties requiring more time to mature than the round, early kinds.



Crosby's
Improved Egyptian.
**CROSBY'S IMPROVED
EGYPTIAN BEET.**

A very superior strain of the well-known Egyptian, carefully selected, blood color, quick, rapid growth. The shape is very desirable, as shown in the accompanying photograph, being not so round as the Eclipse, or quite so flat as the ordinary Egyptian. It may be sown outside as late as July. **Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 75c.**
BASSANO, OR EXTRA EARLY TURNIP.

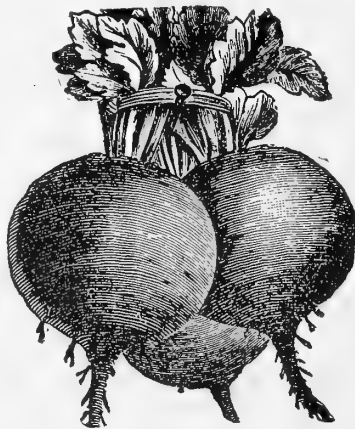
Flesh white and rose; very sweet and tender. **Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 75c.**

EXTRA EARLY EGYPTIAN.

This is a flat Beet, very early and deep red color. Owing to the small top it can be planted very close. **Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 50c.**

G. & T. CO.'S EARLY MARKET.

Its qualities are extra early, dark red color, fineness of shape and small top. One of the most attractive varieties grown, and is especially desirable for hotbeds on account of its small top and close-growing habit. **Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 75c.**



Eclipse Beet.
ECLIPSE BEET.

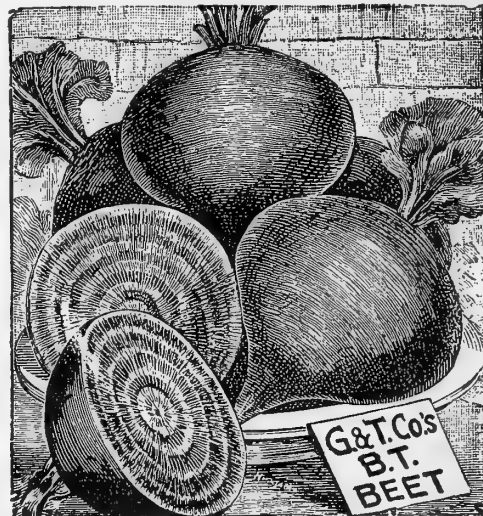
This extra early Beet is remarkable for its fine quality and rapid growth; is of deep red color and handsome shape. As an early market sort it is unrivaled. It is to a large extent superseding the Egyptian, being earlier in development, more attractive in appearance, and of superior quality for the table. **Pkts., 5c. and 10c. ¼ Lb., 20c. Lb., 75c.**

EDMAND'S RED TURNIP.

The most uniform of all Turnip Beets. It is of handsome round shape, good marketable size and deep blood color. It has a small top, and may be planted close. **Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 75c.**

DETROIT DARK RED TURNIP BEET.

This is one of the finest formed and handsomest-colored Beets on the market. It is unsurpassed in the uniformity and beauty of the crop. It is exceedingly early, and produces more marketable specimens on the same acreage than any other variety. **Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 75c.**



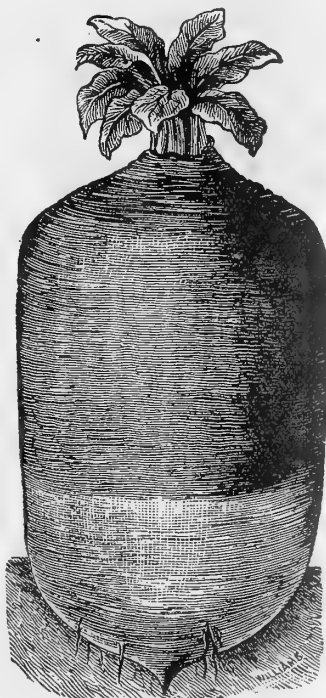
G. & T. CO.'S EARLY BLOOD TURNIP BEETS.

This is our Special Stock of Early Blood Turnip Beet, which we have been growing for a number of years, and which the market gardeners of Baltimore and other places prefer. It is of dark red color, handsome shape and early. **Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 75c.**

LARGE LONG BLOOD.

A large and desirable late variety of deep red color. **Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 75c.**

SWISS CHARD. Oz., 10c. Lb., 75c.



Golden Tankard Mangold.

MANGEL WURZEL BEETS FOR STOCK

SOW 4 POUNDS TO THE ACRE.

Stock Beets grow larger than any other Beets, and hence require more room. They should be sown from April to June, in drills 2½ feet apart, and the plants thinned to 12 to 15 inches in the row. The attention of farmers to the growing of Beets for stock feeding has rapidly increased, but it should be grown more generally, and will show the results in the health and condition of the stock. It supplies good, rich food for cattle during the winter.

LONG RED MANGOLD WURZEL.

The well-known, large, long variety, grows well out of ground. Color light red. Very productive. **Pkt., 5c. ¼ lb., 15c. Lb., 40c. 5 lbs., \$1.75.**

GOLDEN TANKARD MANGOLD.

The best type of Mangold—small top, smooth, rich skin, broad shoulders, very solid fleshed, golden stemmed, heavy producer. **Pkt., 5c. ¼ lb., 15c. Lb., 40c. 5 lbs., \$1.75.**

WHITE SUGAR BEET.

A large-growing sort, and used for feeding stock. **Pkt., 5c. ¼ Lb., 15c. Lb., 40c. 5 Lbs., \$1.75.**

CHAMPION YELLOW INTERMEDIATE, OR GATE-POST MANGOLD.

One of the very finest Mangolds ever introduced, giving unbounded satisfaction wherever grown. With good cultivation will crop at the rate of 200 bushels per acre. **Pkt., 5c. ¼ Lb., 15c. Lb., 40c. 5 Lbs., \$1.75.**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

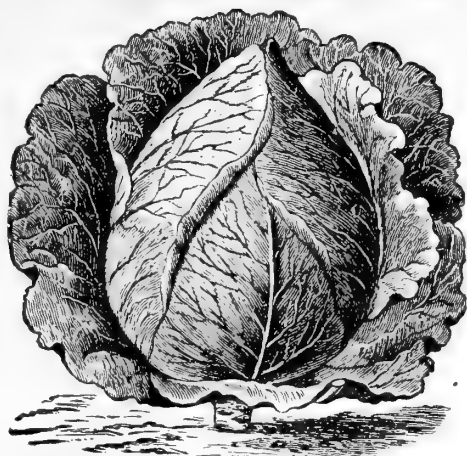
CABBAGE

One Ounce of Seed to 100 Yards of Row.

GERMAN, KOPFKOHL.

EARLY CABBAGES.

Cabbage will thrive on any good corn land, though the stronger the soil the better they will develop. New land is preferable. Plow deep and manure very liberally, as cabbage is a strong feeder, and will repay for the care bestowed upon it. The early sorts bear planting from eighteen inches to two feet apart in the rows, with the rows from two to two and a half feet apart. The larger varieties to be from two to four feet apart in the rows, with the rows from two and a half to four feet apart, the distance varying with the size. It does not pay to buy cheap cabbage seed. Ours are American grown, and from the best stock in the country. For early use, sow in a hotbed in February or March, and transplant to a cold-frame as soon as large enough. In April the plants may be set out in the rows. For late crop, sow in nursery bed in May or June, and transplant as soon as the plants are five or six inches high. The ground should be thoroughly cultivated every week until the plants meet in the rows.



Select Early Jersey Wakefield

American Grown.

The very best early Cabbage, and grown more extensively by market gardeners than any other variety. It is early, the heads are pyramidal in shape, very large and solid, and having but few outside leaves, the plants can be set close together. We secured our seed from a grower of the best Wakefield Cabbage in the country, and it is giving good results wherever it is used, so much so that our sales of this sort are rapidly increasing each year. The demand for this sort has brought on the market inferior stock at a low price; but when select stock, such as we offer, is used it cannot fail to give satisfaction. **Pkts., 5c. and 10c. Oz., 20c. ¼ Lb., 50c. Lb. \$1.75.**

Charleston, or Large Wakefield

American Grown.

This is now a very popular market cabbage, fully meeting the demand for a cabbage having all the characteristics of the Jersey Wakefield, but larger. It is five to six days later than Early Jersey Wakefield. The heads are fully one-half larger and quite solid. It is very compact in growth, and can be easily planted in rows two feet apart and twenty inches in rows. One great advantage is, it does not burst open when ripe, like many other early sorts, and consequently can be left standing on the ground a long while without injury until a favorable opportunity for cutting. No market or private gardener desiring a cabbage of this kind should fail to plant this valuable sort.

Pkts. 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

KING OF EARLIES.—Our own introduction; American grown. An extra early variety, fully a week ahead of all other varieties in forming marketable heads; the heads are tall and slim and of rather small size, formed like a Wakefield. Habit, vigorous; short stem and proof against sun. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.**

EXTRA EARLY EXPRESS.—Heads are comparatively thicker and less pointed than Jersey Wakefield and slightly earlier. Head softer, but stands shipping better. **Pkts., 5c. and 10c. Oz., 20c. ¼ Lb., 50c. Lb., \$1.75.**



LARGE OR CHARLESTON WAKEFIELD.

EARLY WINNINGSTADT.—Head large, cone-shaped and solid. An old and popular sort. **Pkts., 5c. and 10c. Oz., 20c. ¼ Lb., 50c. Lb., \$1.75.**

LARGE EARLY YORK.—(American Grown)—One of the earliest. Forms a medium size, pointed head. **Pkts., 5c. and 10c. Oz., 20c. ¼ Lb., 50c. Lb., \$1.75.**

COPENHAGEN MARKET.—A new round head, solid cabbage, recently introduced from Denmark. It is without doubt the finest large round-headed early cabbage in cultivation. The type is thoroughly fixed and the heads mature uniformly, which enables the crop to be harvested at one time, so that the ground can be cleared in two cuttings.

It matures as early as the Charleston Wakefield, and will give a heavier yield per acre. In an average season heads will weigh about 8 pounds or more each.

The leaves are light green in color, tightly folded, which produces a short stem plant. We consider it the finest flat-head variety for spring or summer. Our seed comes from the originator direct.

Pkts., 5c. and 10c. Oz., 30c. ¼ Lb., 80c. Lb., \$3.00. Postpaid.



Copenhagen Market
Cabbage, New
From Denmark.

CABBAGE—CONTINUED



NEW EARLY—American Grown.

This is one of the finest large early cabbages grown. Forms solid, compact heads, and leaves grow close to the head, thus allowing many more cabbages to be grown on the acre than any other sort. One of its most striking features is its earliness. It heads so rapidly that the worms can't hurt it.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 60c. Lb., \$2.00.

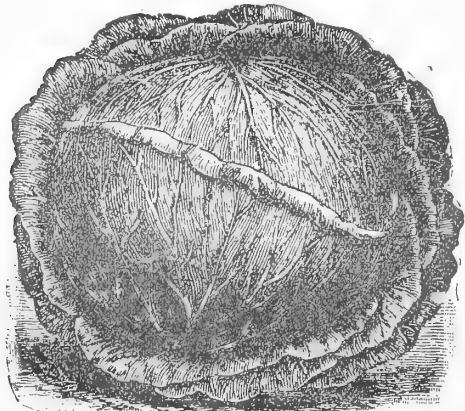
SUCCESSION CABBAGE.—A fine early variety, coming in a few days later than Early Summer, but it is immeasurably superior to that variety; it is nearly double the size, and is absolutely true to its type under all conditions. In addition to this, it has no tendency whatever to run to seed. It is one of the finest sorts in existence today; whether for medium early, main crop or late use, it has no superior. It is so finely bred and so true to type that in a field of twenty acres every head appears alike. We can recommend it either for the market gardener, trucker or private planter, as it is a perfect cabbage in every respect, not only being of the largest size, but of handsome color and of the finest quality. It is probably the safest variety for an amateur to plant, as it does well at all seasons, and one is almost sure of getting a crop, no matter when it is planted.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 75c. Lb., \$2.50.

EARLY SUMMER CABBAGE.—American grown. One of the earliest of the summer varieties. Heads large and flat; short stemmed, few outside leaves, uniform in character, and about 10 days later than the Wakefield. It is very popular with the truckers. Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.75.

LOUISVILLE DRUMHEAD.—American grown. This is the most popular intermediate or second early with market gardeners around Louisville and the Southwest. It comes off medium early, withstands heat to a remarkable extent, heads large, solid and uniform in size and color. We can recommend this sort very highly for the Southern and Middle States. Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.75.

FOTTLER'S EARLY DRUMHEAD OR SHORT STEM BRUNSWICK CABBAGE.—In its improved type, this is a very fine summer or early fall variety. Good both for intermediate and winter use. Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.50.



ALL-HEAD EARLY CABBAGE.

ALL HEAD EARLY

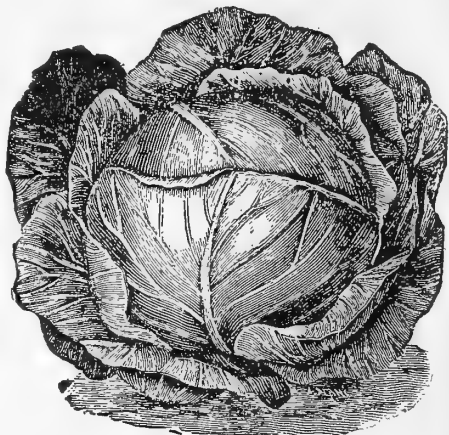
ALL-HEAD EARLY—American Grown. is the largest of all early Cabbages, fully one-third larger than the Early Summer. It is the nearest approach to a thoroughbred cabbage of any variety, both in size and uniform development. As the All-Head comes in quicker than any of the other flat cabbages, it is consequently more tender. It is also valuable for a late or winter Cabbage.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 60c. Lb., \$2.00.

EARLY DWARF FLAT DUTCH—American Grown.

An old standard variety which stands the sun and produces fine, large heads, coming in soon after the Wakefield.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.75.



SUCCESSION CABBAGE.

ALL SEASONS—American Grown.

This forms a fine, large head, of superior quality, nearly as early as the Early Summer. Suitable for planting at any season.

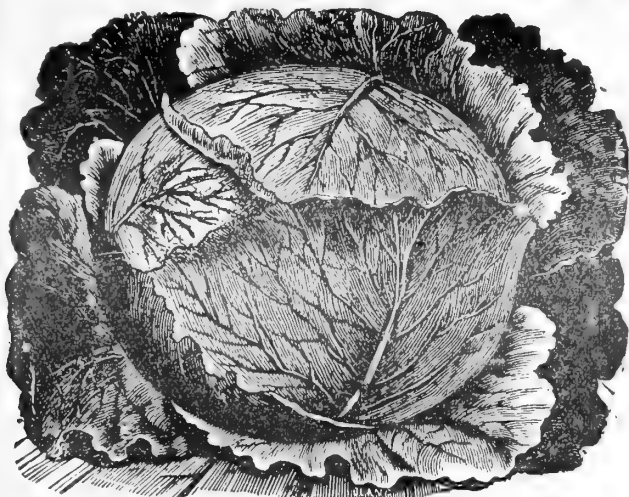
Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.75.

SUREHEAD—American Grown.

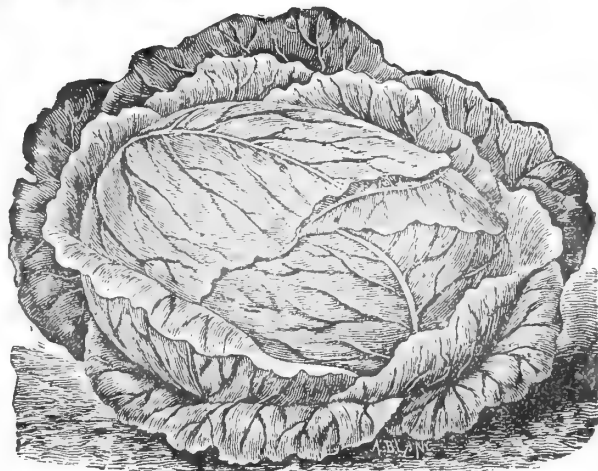
This popular cabbage is rightfully named Surehead, as it never fails to make a fine, large, solid head, with few outer leaves. It is a strong, vigorous grower, and very uniform in size and color. Always brings the highest price in our markets.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.75.

LATE OR AUTUMN CABBAGE



BOSS FLAT DUTCH—LATE CABBAGE.



PREMIUM LARGE FLAT DUTCH—LATE CABBAGE.

BOSS FLAT DUTCH CABBAGE—

In again calling the attention of market gardeners and truckers to this magnificent Cabbage, we would say that it has fully met the claims we made for it upon its introduction. When we ask our customers how they like it, their answer is "Splendid!" or "Elegant!" "Everything heads!" "You can scarcely find any that don't head!" The heads are large, hard, thick and flat, the leaves lapping across the center, making it the most desirable winter variety in cultivation. Try it and be convinced of its superior quality.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.



PREMIUM LARGE LATE FLAT DUTCH CABBAGE—

American Grown.

Large and excellent for winter; very extensively grown. The head is broad, thick and flat, well covered in by leaves lapping across the center, outside leaves feathered to the base of the leaf stem.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

ENKHUIZEN GLORY CABBAGE

ENKHUIZEN GLORY.

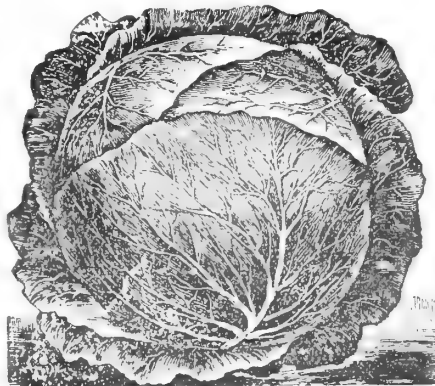
A most valuable second-early Cabbage that is becoming immensely popular. It produces fine marketable heads fully as early as our famous **Allhead Early**—but round or ball-like in form. The heads are very solid, with but few outer leaves—and of such compact growth as to permit quite close planting, thus increasing the yield. The heads are of medium size, tender and of fine flavor. They keep well when put away and consequently **Enkhuiizen Glory** is valuable also for sowing later in the season for early winter use. Plants set out in mid-summer will produce fine heads before cold weather. The seed we offer has been grown by the originator in Holland and will yield heads that will delight the most critical planters.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$2.00.

DANISH BALL HEAD.

This most excellent variety of cabbage, coming from Denmark, has grown very rapidly into favor with both market and private gardeners. It is a large, round, solid heading, medium early variety; a very sure header, having few loose leaves, consequently can be planted very close together. Although a medium early, can also be grown for a fall and winter crop, being one of the best keepers. Very popular in Philadelphia, New York and Boston markets.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.



DANISH BALL HEAD CABBAGE.

LARGE LATE AMERICAN DRUM-HEAD (American Grown).

One of the largest, most solid and best keeping late varieties. This variety seldom fails to head, and is of good quality.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

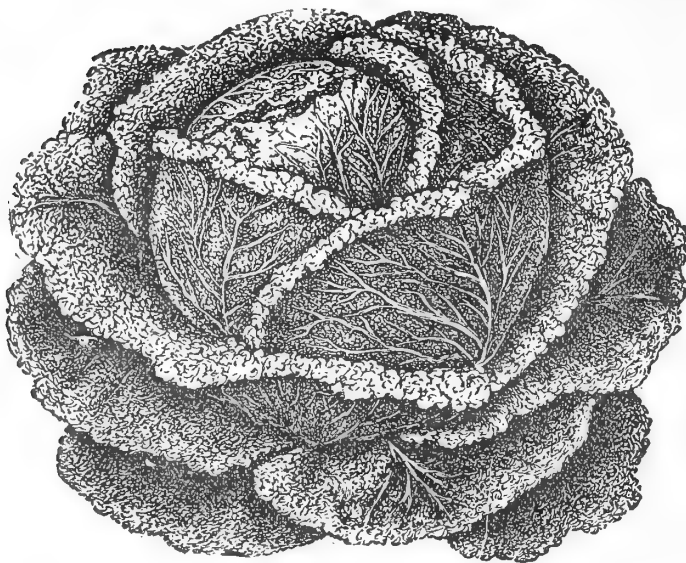
WORLD-BEATER, or AUTUMN KING.

This is a very superior late cabbage. The large, broad heads are very thick through, slightly rounded at the top, fine grained and tender, has a short stalk, green color, and one of the best keepers we know, and is a rapid grower. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.**

RED DUTCH.

The head is round, large, solid and a deep red color, the best of the red cabbages. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.**

LATE CABBAGES==Continued



DRUMHEAD SAVOY.

PERFECTION DRUMHEAD SAVOY

AMERICAN GROWN.

This is without any exception the finest stock of Savoy cabbage to be found anywhere. The heads are large and solid, the leaves beautifully curled, and in tenderness and flavor it is almost equal to cauliflower, while its keeping quality is first class. To say that our market gardeners are pleased with it is putting it mild; they are enthusiastic over it, as they find it so much superior to the old-time Savoy. It is specially adapted to private use, as when grown in the fall and allowed to be touched by frost it is one of the most delicious of all vegetables.

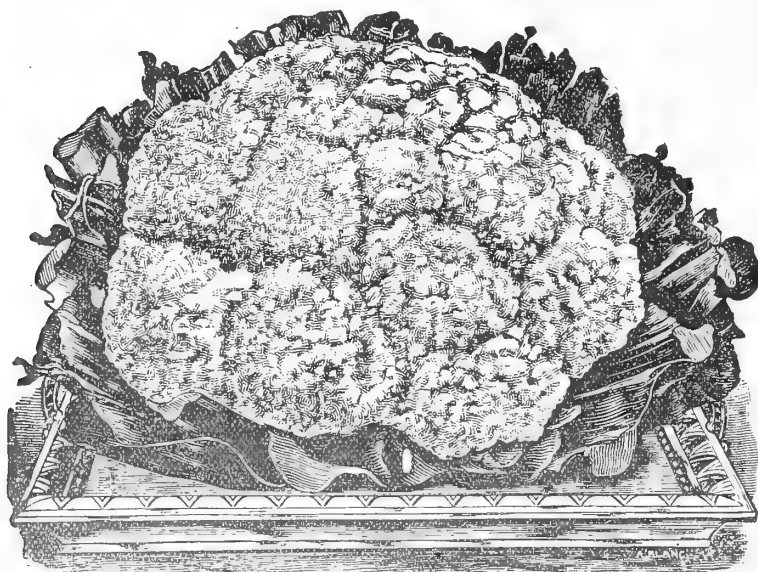
Packets, 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 75c. Lb., \$2.50.

GEORGIA COLLARDS

Called the Cabbage Collard on account of its close bunching growth. The plant produces center leaves generally perfectly white, though sometimes dashed with pink. It is a very delicate vegetable and of the finest quality.

Packets, 5c. and 10c. $\frac{1}{4}$ lb., 35c. Lb., \$1.00.

G. & T. CO.'S LARGE GILT EDGE SNOWBALL CAULIFLOWER



Is without exception one of the finest sorts now in cultivation. It is very early. Nearly every plant will, under proper cultivation, form a perfect snow-white head, and its close growing, compact habit enables the grower to plant one-third more on the same space of ground than other varieties. In fact, it is, and deserves to be, the standard with the market gardener and amateur.

Packets, 25c. and 50c. $\frac{1}{2}$ oz., 90c. Oz., \$1.75.
 $\frac{1}{4}$ lb., \$6.00.

EXTRA EARLY SNOWBALL.—Our stock of this well-known variety is unexcelled. It is one of the best sorts for open ground or forcing under glass.

Packets, 25c. and 50c. $\frac{1}{2}$ oz., 75c. Oz., \$1.50.

G. & T. CO.'S "DROUTH-RESISTING."—Produces large white solid heads, maturing about a week later than our large Gilt Edge Snowball. The best for hot, dry weather.

Packets, 25c. and 50c. $\frac{1}{2}$ oz., 90c. Oz., \$1.50.
 $\frac{1}{4}$ lb., \$5.00.

G. & T. CO.'S SELECT EARLY DWARF ERFURT.—Long the standard of highest excellence, and still holding its own with a great many people.

Packets, 25c. and 50c. $\frac{1}{4}$ oz., 50c. Oz., \$1.50.

EARLY PARIS.—An excellent sort for early or late use. Packets, 5c. and 10c. Oz., 50c.

DWARF ERFURT.—An inexpensive sort, but will give good results under favorable conditions.

Packets, 5c. and 10c. $\frac{1}{2}$ oz., 50c. Oz., \$1.00.

One ounce of seed will produce 2000 plants.

Culture.—The same as for Cabbage, except that extra manure and plenty of water will pay upon Cauliflower. If the soil be dry, water frequently, and if the plants could have a heavy mulch of hay from drouth. The early kinds should be strong from drouth. The early kinds should be strong from drouth. The early kinds should be strong from drouth.

or straw, it would keep the soil moist, and the plants would not suffer enough to plant out not later than the middle of April; the late kinds may

CORN SALAD

Three Ounces of Seed to 100 Feet of Row.

A favorite salad plant, and very hardy. Sow in August or September, and protect with leaves during the winter; it can be gathered in the spring very early. Sown in April, it is soon ready for use. The leaves are sometimes boiled and served as spinach.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. Lb., 40c. 5 lbs., \$1.75.



CRESS, OR PEPPER GRASS

Used as a small salad. Sow very thickly in shallow drills, on a smooth surface, at short intervals throughout the season.

CURLED.—Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. Lb., 50c.

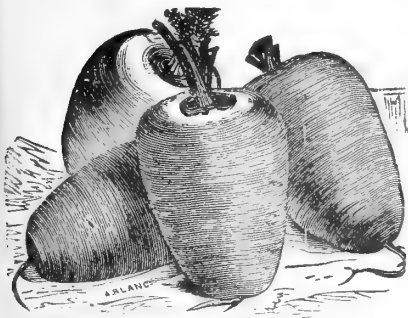
WATER CRESS.—Water Cress may be grown along the margin of running streams, ditches or ponds, and has a ready sale in the hotels and markets.

Pkts., 5c. and 10c. Oz., 30c. $\frac{1}{4}$ lb., \$1.00. Lb., \$2.75.

G. & T. CO.'S CARROTS

1 OZ. OF SEED TO
100 FEET OF ROW

Carrots thrive best in rather a light, rich loam. The ground should be well manured with fine, well-rotted or composted manure, and be thoroughly worked quite deep. Sow from middle of April to middle of May, in rows 14 inches apart, and thin the plants to 5 or 6 inches in the row. For late crops sow in June or July. An important point is to tread the rows firmly after sowing. For field culture, Carrots should be sown in drills 3 to 3½ feet apart, so as to cultivate with horse.



OXHEART OR GUERANDE.

Oxheart or Guerande

One of the heaviest yielders and the best for stiff and heavy soils where the long varieties would fail. The roots are often 3 to 3½ inches thick at the top; nearly oval in shape; the flesh is bright orange, fine grained and sweet. Of the finest table quality and equally good for stock.

Pkt., 5c. Oz. 10c. ¼ lb. 40c. Lb., \$1.00.



CHANTENAY.

CHANTENAY

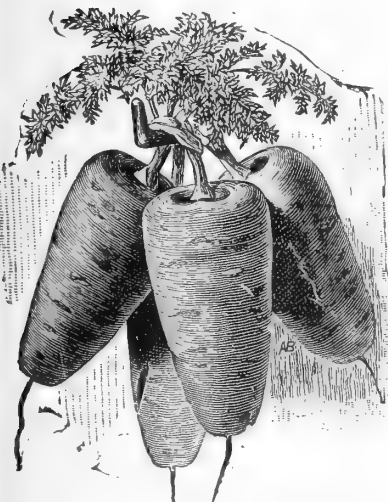
A most excellent, medium early, half long variety. It is one of the best in quality for the market and home garden, while its great productiveness and the ease with which it can be harvested make it desirable as a field sort. The tops are medium sized with small neck. The mature roots are thick, five and one-half to six inches in length, uniformly half long or stump rooted but tapering slightly, smooth, deep orange-red in color. The flesh is very crisp and tender. Although a medium early sort the roots are suitable for use nearly as early as any. The variety is extensively used for bunching.

Pkt., 5c. Oz. 15c. 2 Oz., 25c. ¼ lb., 40c. Lb., \$1.00.

EARLY SCARLET HORN

The earliest variety in our list. Blunt-pointed, about 3 inches long, 1½ inches thick, very fine grained, sweet flavored; deep rich orange color. Fine for bunching.

Pkt., 5c. Oz., 10c. ¼ lb., 40c. Lb., \$1.00.



EARLY SCARLET HORN.

Half Long Danvers

A decided acquisition of the half-long type, broad-shouldered, cylindrical, admirable in color, fixed in habits, a wonderful producer. It is a first-class Carrot for all soils.

Pkt., 5c. Oz., 10c. ¼ lb., 40c. Lb., \$1.00.

IMPROVED LONG ORANGE

Deep orange color, long, smooth, fine for either garden or field culture. All who have cattle should raise a surplus of this Carrot for feeding milch cows during winter. It increases the flow of milk and imparts to the butter a delicious flavor and a rich golden color.

Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 60c.

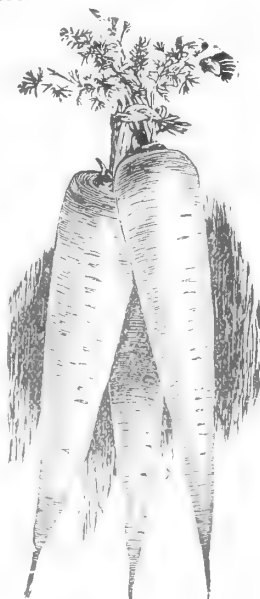
SCARLET INTERMEDIATE

A fine handsome Carrot, in form midway between the Long Orange and Early Scarlet Horn. The roots are smooth and handsome, deep orange color, medium length tapering to a blunt point. The flesh is sweet, crisp and tender.

Pkt., 5c. Oz., 10c. ¼ lb., 40c. Lb., \$1.00.



DANVERS.



IMPROVED LONG ORANGE.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

1 Oz. Will Produce 2000 Plants. CELERY GERMAN, CELERIE.

CELERY

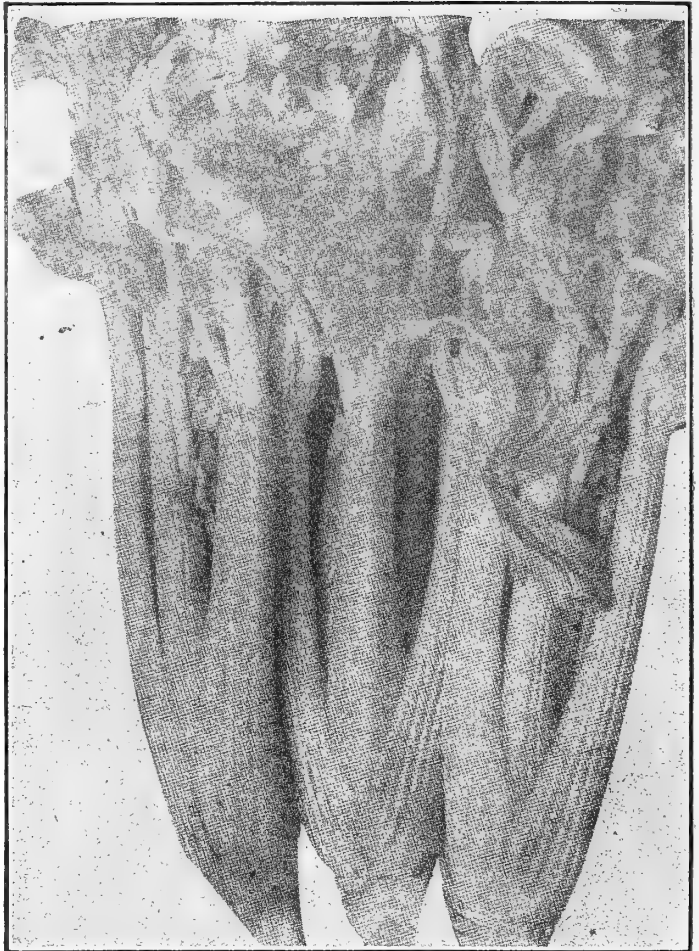
Requires water, and lots of it, from the time the seed is sown in boxes in March until it is pulled in the autumn or winter. The seed is slow to germinate, and the soil where it is planted needs to be kept very wet.

Plant seed in hotbed or very early in open ground. Transplant 4 inches apart when 3 inches high in rich soil, finely pulverized; water and protect until well rooted. In June or July transplant into rows 3 to 4 feet apart, either on surface or well-manured trenches a foot in depth, half filled with well-rotted manure. Set the plants from 6 to 8 inches apart. To blanch, draw earth around the plants from time to time, taking care not to cover the top of the center shoots.

FRENCH GOLDEN SELF-BLANCHING

This cannot be too highly recommended, as after being thoroughly tested it has fulfilled all that has been claimed for it. It is decidedly the very best and most profitable Celery in cultivation; it is very early and entirely self-blanching. The beautiful appearance of the plant, its close habit, compact growth, straight, vigorous stalks, solid, crisp, brittle ribs, fine quality and delicious flavor commend it to all lovers of Celery. No variety can surpass it, indeed, equal the Paris Golden Self-Blanching in its striking appearance and delicious flavor. Our stock of this variety has been giving the market gardeners the very best results for several years.

Pkts., 5c. and 10c. Oz., \$1.00. $\frac{1}{4}$ lb., \$4.00. Lb., \$15.00.



FRENCH GOLDEN SELF-BLANCHING CELERY.

IMPROVED BOSTON MARKET

This is a decided improvement on the old Boston Market, being earlier, larger in size and of more vigorous growth.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.75.

WHITE PLUME

An early, handsome, self-bleaching variety, growing in popularity every year. Like the Golden Self-Blanching, it requires very little earthing up to blanch it, and as a Celery for fall and early winter use it is unsurpassed.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 60c. Lb., \$1.75.

WHITE SOLID

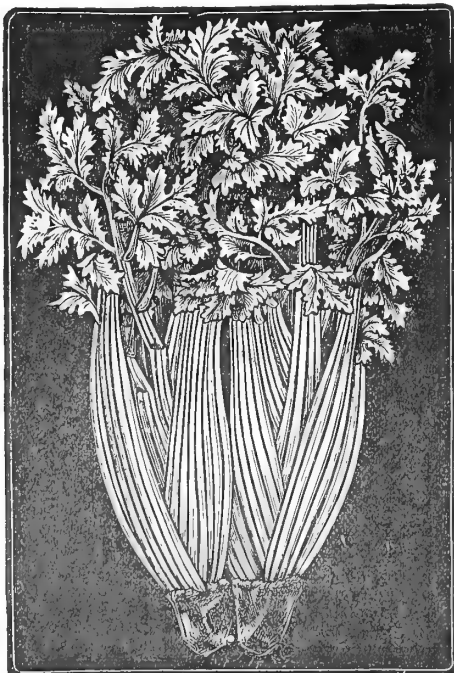
A large standard sort. One of the large growing sorts.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.50.

CELERY SEED FOR FLAVORING

This seed is used for flavoring pickles, soups, etc.

Pkt., 5c. $\frac{1}{4}$ lb., 10c. $\frac{1}{2}$ lb., 15c. Lb., 25c.

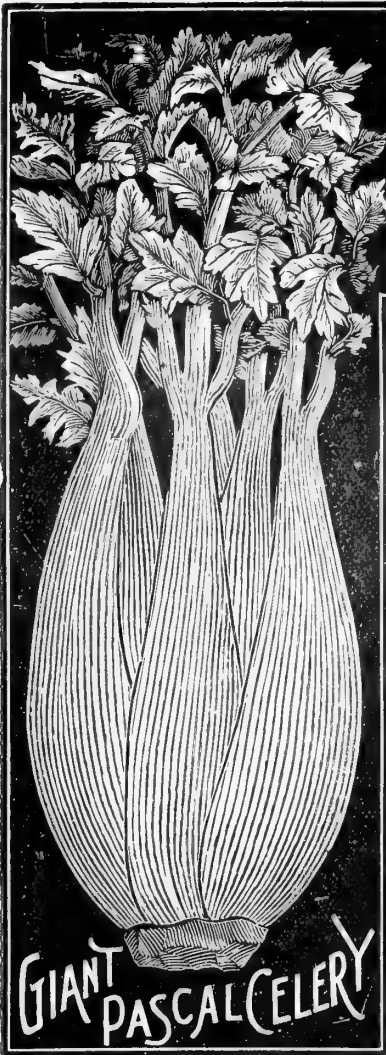


WHITE PLUME CELERY.

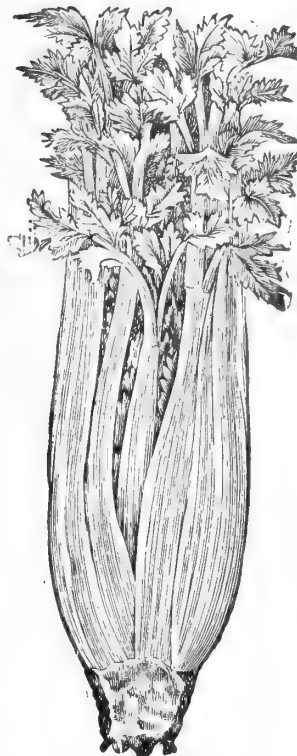
CELERY—CONTINUED

GERMAN, CELERIE

1 Oz. Will Produce 2000 Plants.



GIANT PASCAL CELERY



WINTER QUEEN CELERY.



GOLDEN HEART, OR GOLDEN DWARF CELERY.

GIANT PASCAL CELERY.
A selection from the well-known Self-Blanching Celery. It partakes of the best qualities of that variety, is somewhat larger, and an excellent keeper. It is of fine nutty flavor, being entirely free from any bitter taste. It grows about 2 feet high. The stalks are very broad, thick and crisp; the width and thickness of these are distinctive features of this variety.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.75.

GOLDEN HEART, OR GOLDEN DWARF CELERY.
This old standard variety still holds a high place in the estimation of market gardeners, and is largely used, always giving satisfaction. A showy sort, solid, of fine flavor and a good keeper.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.75.

WINTER QUEEN CELERY.
It is, without doubt, the most valuable variety of Celery for winter and spring use ever introduced. It is also much stouter, thicker and heavier, with double the amount of heart of any known Celery. The plant is beautiful in appearance, of close habit and compact growth, and blanches to a beautiful cream white. Ribs perfectly solid, crisp and of delicious nutty flavor.

Pkt., 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.75.

NEW YORK GIANT SELF-BLANCHING CELERY.

A fine large, white self-blanching celery. It is extra early, and if sown in early spring can be had for market in August. We consider it the best white variety for the early fall trade; has a vigorous growth and attains a very large size; is crisp, tender, brittle and very sweet, with a nutty flavor superior to any of the old kinds.

Pkts., 5c. and 10c. Oz., 30c. $\frac{1}{4}$ lb., \$1.00. Lb., \$3.00.

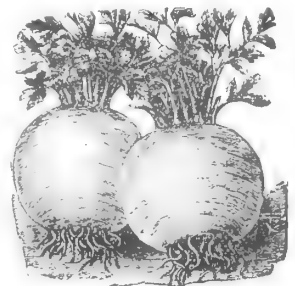
CELERIAC OR TURNIP ROOTED CELERY.

LARGE SMOOTH PRAGUE.

The largest, smoothest and best of the Celeriacs. Pkts., 5c. and 10c. Oz., 15c. $\frac{1}{4}$ lb., 40c. Lb., \$1.50.

NEW APPLE SHAPE.

Small foliage, large, round and smooth. Pkts., 5c. and 10c. Oz., 15c. $\frac{1}{4}$ lb., 40c. Lb., \$1.50.



Large Smooth Prague.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

CORN FOR TABLE USE

WHEN CORN IS WANTED BY MAIL, ADD 6 CENTS PER PINT TO PAY POSTAGE.

CULTURE.—Sugar Corn may be planted in rows 3 to 4 feet apart, and the seeds placed about 8 inches apart in the rows, or planted in hills 3 to 4 feet apart each way, according to variety grown, or richness of soil. Do not let more than three plants remain in each hill. It can be planted in this vicinity from first of May to last of July for succession of crop. By planting every two weeks a family may have good corn throughout the whole season.



Extra Early Baltimore.

FIRST EXTRA EARLY VARIETIES.

Not a Sugar Corn, but are used for very early planting, and will mature nice roasting ears before the sweet corn.



G. & T. Co.'s New Sixty Day.

FIRST EARLY VARIETIES

EXTRA EARLY BALTIMORE.

The hardest and earliest variety for table use; it can be planted earlier than any other, but is not a sweet corn; white indented grains and short ears. Pt., 15c. Qt., 20c. Pk., 75c. Bus., \$2.75.

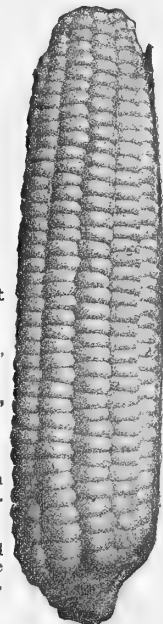
G. & T. CO.'S NEW 60-DAY CORN.—The largest extra early corn grown. As early as Extra Early Adams, but grows larger ears. Crop failed.

EXTRA EARLY ADAMS.—Extremely hardy and early; one of the best for early planting. Pt., 15c. Qt., 20c. Pk., 75c. Bus., \$2.75.

EARLY ADAMS.—A favorite in the South. Pt., 15c. Qt., 20c. Pk., 75c. Bus., \$2.75.

EARLY BURLINGTON HYBRID.—Not a true sugar corn, but a hybrid or mixture between the sugar corn and the Adams Early, being as early as Adams, but having a larger ear. It closely resembles the sugar corn. Pt., 15c. Qt., 20c. Pk., 90c. Bus., \$3.00.

NINETY-DAY CORN (Red Cob).—This is an elegant corn for truckers and market gardeners, as it is as good a seller as green corn, and if not used as green corn makes a good variety for feeding purposes. It may be planted for early crop, and at intervals until the middle of July. Many truckers use it for their late planting, as it produces a very sure crop. Qt., 15c. 2 qts., 25c. 4 qts., 40c. Peck, 70c. Bus., \$2.50.



New Golden Bantam Sugar Corn.

SWEET OR SUGAR CORN

EXTRA-EARLY VARIETIES

Sweet or Sugar.

NEW GOLDEN BANTAM SUGAR CORN.—The earliest and best of sugar corns. It is of golden color and delicious flavor, with the sweetness of honey; can be planted earlier than the other varieties of true sweet corn, as it is very hardy. The stalks are dwarf in habit, growing about four feet high, producing two or three good ears five to six inches long, well set from the ground. Pt., 15c. Qt., 30c. Pk., \$1.25.

PREMO.—The best early sweet corn on the market. A genuine sweet corn as early as the Adams Extra Early, and larger than any other early variety. The quality is the best, ears measuring 7 to 9 inches long, being well filled to the end; generally bearing two ears to the stalk. Pt., 15c. Qt., 25c. Pk., \$1.25. Bus., \$4.00.

CORY.—An early variety red cob. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.75.

FIRST OF ALL.—A selection from the Cory, the ears about the same size as the Cory, lighter in color and earlier. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$4.00.

WHITE CORY.—An early variety, with good-sized ears and large kernels. Pt., 15c. Qt., 25c. Pk., \$1.25. Bus., \$4.00.

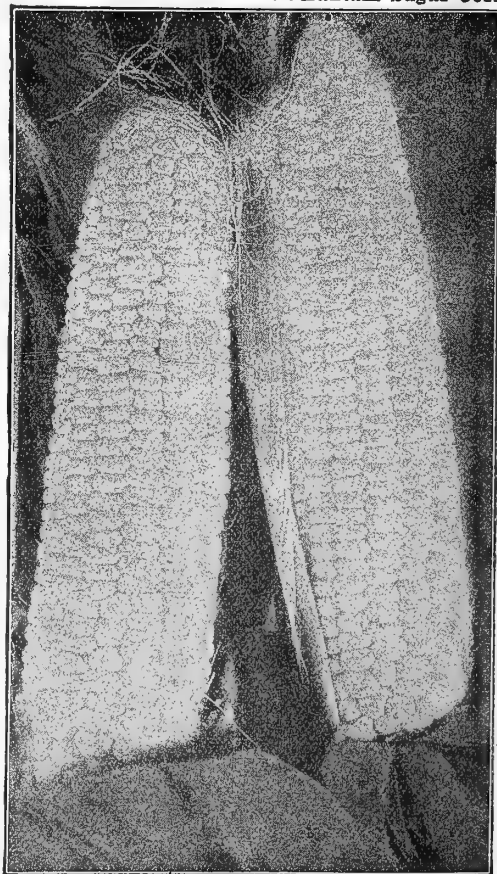
STABLER'S EARLY.—Of larger size than usual for the early kinds. It is remarkable for the fine flavor and sweetness, and is a desirable gardeners' and canning variety. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.

CROSBY'S EXTRA EARLY.—An early market variety, very productive; ears rather short and rich, sugary flavor. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.

EARLY MINNESOTA SUGAR.—One of the first early among sugar corn. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.

BLACK MEXICAN SUGAR.—The black corn is especially rich in sugary qualities. Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.75.

CAUTION.—Sweet Corn in bulk, even after being thoroughly cured, will often gather moisture and spoil, particularly if it has been exposed to a low temperature. To prevent this it should be taken out of the bag as soon as received and spread in a dry place.



Premo.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

SWEET OR SUGAR CORN FOR TABLE USE

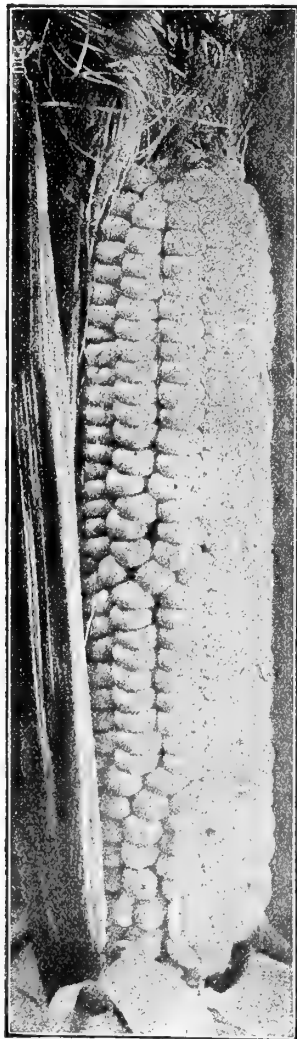
CAUTION.—Sweet Corn in bulk, even after being thoroughly cured, will often gather moisture and spoil, particularly if it has been exposed to a low temperature. To prevent this it should be taken out of the bag as soon as received and spread in a dry place.

MAIN CROP VARIETIES

COUNTRY GENTLEMAN CORN.—This is the sweetest and most deliciously flavored of all sugar corn. It is the finest variety for the table, and will delight the most fastidious epicure. It produces three to four ears to the stalk, and retains its greenness longer than other sorts. **Pt., 15c. Qt., 30c. Pk., \$1.00. Bus., \$4.00.**

STOWELL'S EVERGREEN.—So well known that it scarcely needs description. Excellent; keeps green till cold weather; ears large; one of the best. **Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.**

TRUCKERS' EARLY SUGAR CORN.—This is the most desirable variety of sugar corn for truckers and gardeners to plant early. As its many excellent qualities are becoming generally known, it has come to be one of the standard sorts. It is ten days earlier than Evergreen, very productive, growing two to four ears to the stalk. The ears set low, are large and well filled, the grain long and narrow, similar to Evergreen, but smaller. It is one of the most productive varieties in cultivation. **Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.75.**



TRUCKERS' EARLY CORN.

HICKOX.—A very handsome and excellent variety of sugar corn; large, white grain and sweet. **Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.**

IMPROVED NE PLUS ULTRA.—Early, good-sized ears and deep grain; very productive, some stalks yielding four ears and an average crop running as high as three ears to the stalk. **Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$4.00.**

LATE HAMMOTH.—The largest variety grown; very fine for market purposes. **Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.**

EGYPTIAN, OR WASHINGTON MARKET.—A large variety, somewhat resembling the Evergreen; flavor peculiarly rich and sweet, and of superior quality; fine for market. **Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.**

ZIGZAG EVERGREEN.—This is one of the sweetest and best late sweet corn, not even excepting the celebrated Country Gentleman and Shoe Peg. The ears resemble Stowell's Evergreen in size and shape, except that the kernels are placed irregularly or zigzag upon the cob, which is always an indication of great sweetness in any variety of sugar corn. **Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.**

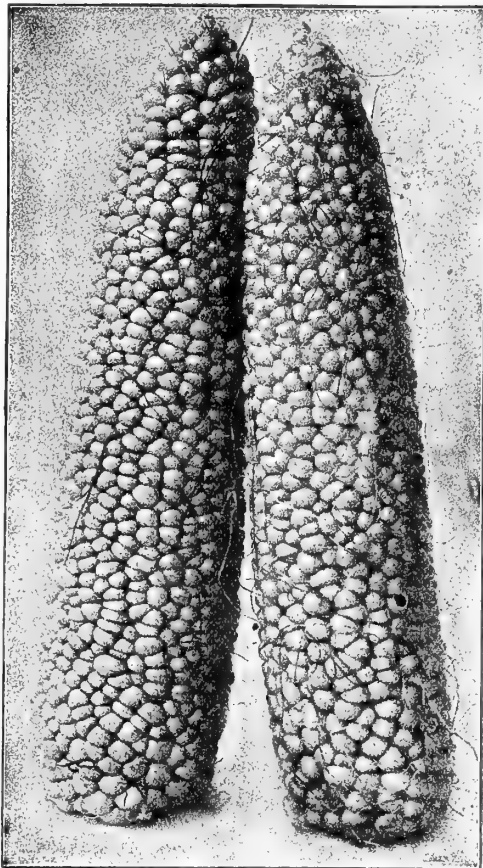
KENDALL'S EARLY GIANT.—The largest early sweet corn known, and is very productive. **Pt., 15c. Qt., 30c. Pk., \$1.00. Bus., \$3.50.**

EARLY MAMMOTH.—A splendid market sort, producing large, handsome ears; grain large, white and sweet; fills out well at the end. **Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.50.**

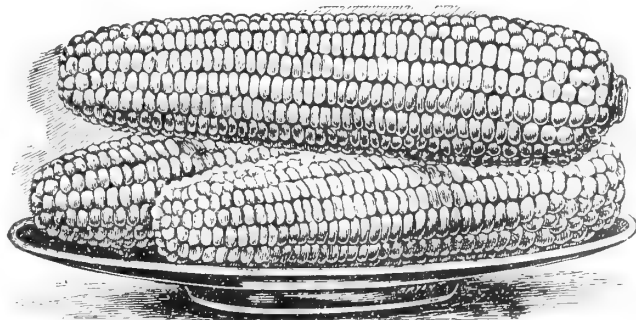
WHITE EVERGREEN.—Has ears as large as Stowell's, is five days earlier; grains pure white. A valuable acquisition for the gardener and canner. **Pt., 15c. Qt., 25c. Pk., \$1.00.**

SUGAR CORN.—For fodder. Write for prices.

Truckers, Write for Prices in Quantity.



COUNTRY GENTLEMAN.



STOWELL'S EVERGREEN.

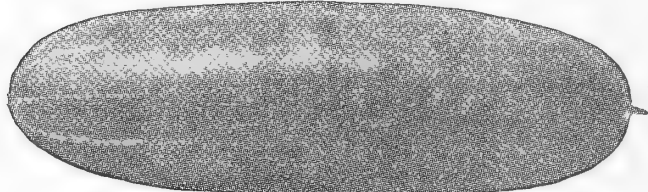
1 Oz. Will Plant 50 Hills.
2 Lbs. Will Plant an Acre.

CUCUMBER GERMAN, GURKE **CULTURE**

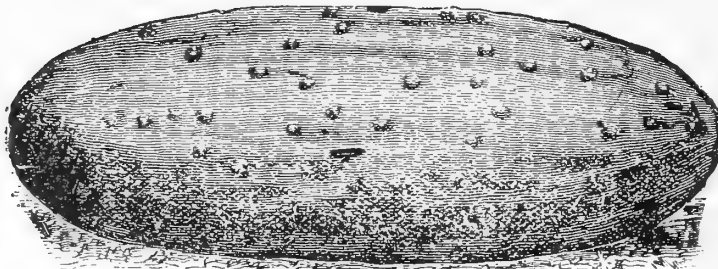
For very early Cucumbers sow the first of April in a hotbed upon pieces of sod (grass side down), so that they can be readily transplanted to the open ground in rich soil when danger of frost is over, or protect by hand-glasses. The vines require a warm location for early Cucumbers. Plant after the ground has become warm in hills 4 feet apart for the smaller varieties, and 5 feet for the larger sort. For pickling, sow from middle of June to last of July. Manure with ashes, fertilizer or some well-rotted compost, working the manure just under the surface. Sprinkle the vines with slug-shot, plaster or air-slaked lime to protect from bugs. The Cucumbers should be gathered when large enough for use, whether required or not; if left to ripen, it destroys their productiveness.



IMPROVED BALTIMORE WHITE SPINE.



EARLY FORTUNE CUCUMBER.



JERSEY PICKLING.



IMPROVED LONG GREEN.

IMPROVED BALTIMORE WHITE SPINE

This is the best Cucumber for early planting, because it will retain its green color longer than any other sort. It is of good size and shape, and the popular variety with truckers around Baltimore and Norfolk, as well as the growers from Virginia to Florida... **Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.**

EXTRA EARLY WHITE SPINE.—A strain of White Spine which has been improved through careful selection, with a view to use for forcing in hothouses and frames; also elegant for field culture. Our stock produces handsome, dark-colored fruits, which retain their color longer than other sorts. **Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.**

ABINGTON WHITE SPINE.—A favorite extra early variety, of desirable size, handsome shape, dark green color, holding its color longer than most others. Good shipper and sells well. **Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.**

EARLY FORTUNE CUCUMBER.—One of the earliest and best dark green White Spine Cucumbers. Extremely early, and beautiful shape. Good for market gardeners, truckers or private family; in fact, any one who likes a dark green white spine cucumber it cannot help but please. Fine for Southern growers, as it stands shipping remarkably well.

Pkt., 5c. Oz., 10c. ¼ lb., 35c. ½ lb., 60c. Lb., \$1.00.

JERSEY PICKLING.—This is the most popular sort with the market gardeners around Baltimore and Philadelphia for pickling. Said to green better than any other variety.

Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.

IMPROVED LONG GREEN

The skin is of a deep green, and the flesh is solid, crisp and of fine quality. We have the very best strains of this variety and recommend it as much the best cucumber of all, and the variety every one should plant. The best known and most popular variety for general use. Is vigorous and productive, and forms fruit fit for use almost as early as the shorter varieties. The mature fruit is almost 12 inches long.

Pkt., 5c. Oz., 15c. ¼ lb., 35c. Lb., \$1.00.

CHICAGO PICKLING.

Very Popular with Chicago Market Gardeners, and Extensively Grown in That Vicinity.

Fruit medium length, pointed at each end, with very large and prominent spines; color deep green. **Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.**

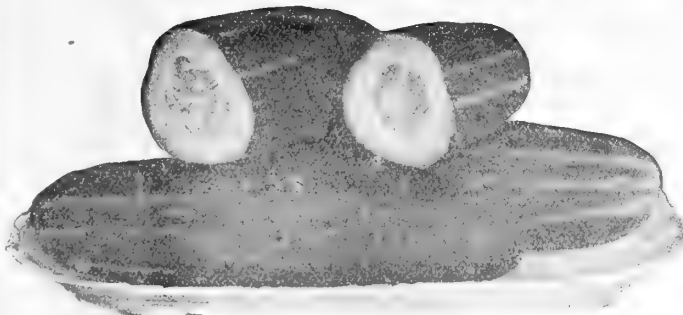
BURR, OR WEST INDIA GHERKIN.

An extremely small fruited variety, grown exclusively for pickles. It has no value for slicing. Is very prickly, but tender and crisp if picked when young. Seed germinates slowly. **Pkt., 5c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.**

LONG GREEN TURKEY.

A very showy and excellent sort. **Pkt., 5c. Oz., 10c. ¼ lb., 35c. Lb., \$1.00.**

CUCUMBERS--Continued



EARLY GREEN PROLIFIC.

EARLY GREEN PROLIFIC

A very productive variety, having fruits of good length and handsome form. Desirable for producing pickles of medium size and of fine quality when sliced for the table

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 25c. Lb., 75c.



EVER-BEARING CUCUMBER.

EVER-BEARING CUCUMBER

This variety is unique, and will prove valuable both for the table and for pickling. Is of small size, very early, enormously productive and extremely valuable as a green pickler. The peculiar merit of this new Cucumber is that the vines continue to flower and produce fruit until killed by frost, whether the ripe Cucumbers are picked off or not, in which respect it differs from all other sorts in cultivation.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 25c. Lb., 75c.

CUMBERLAND

A new and distinct variety. Said to have originated from crossing the Parisian Pickling and the Early White Spine. It certainly has the good qualities of each of these sorts. The fruits are large, symmetrical, dark green, covered with innumerable small white spines, and are of prime quality for slicing. The vine is vigorous, wonderfully prolific, and continues in bearing much longer than most sorts.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 30c. Lb., 90c.

EARLY CLUSTER

A short, prickly variety, bearing in clusters near the root. A good bearer. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 25c. Lb., 75c.

JAPANESE CLIMBING CUCUMBER

It bears abundantly throughout the season, while the climbing habit enables the hanging fruit to grow perfectly straight, from 12 to 16 inches in length; the Cucumbers are thick, tender and of delicate flavor; flesh white, skin dark green, turning to brown, and netted when ripe.

Pkt., 10c. Oz., 15c. $\frac{1}{4}$ lb., 40c.

TELEGRAPH (English Forcing)

Should be grown in hotbeds where the temperature does not fall below 65 degrees at night. Pkt., 25c.



EARLY CLUSTER CUCUMBER.

GREEN CURLED ENDIVE **GERMAN, ENDIVIEN**

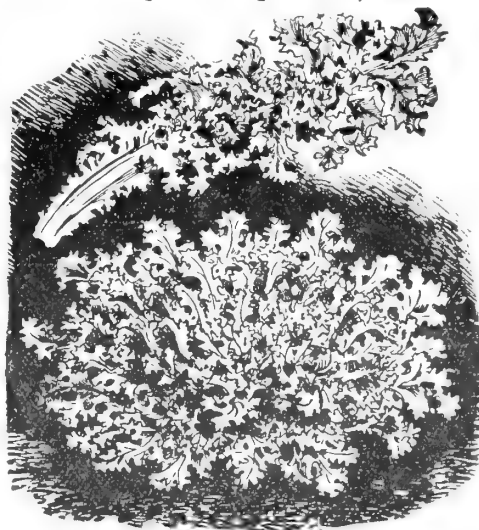
Is One of the Best Salads for Fall and Winter Use. One Ounce of Seed to 150 Feet of Row.

For early use, sow as soon as the ground can be worked in the spring, in drills 15 inches apart, and then thin plants to 6 or 8 inches in the row. To blanch the leaves, gather them carefully together when perfectly dry and tie them with matting or soft fibrous material. Another method is to invert flower pots over the plant. The leaves are very highly esteemed for use as salads.

GREEN CURLED

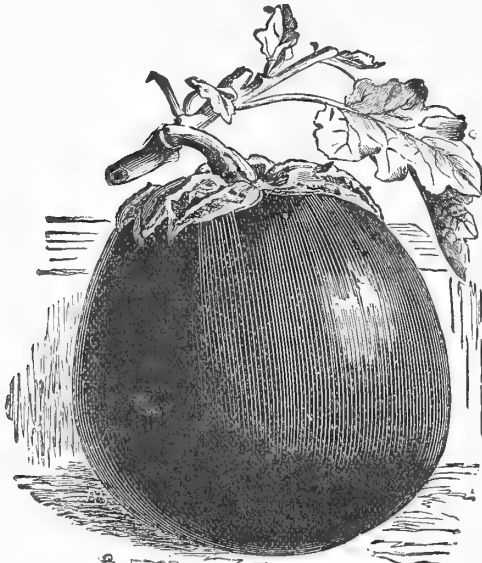
The best sort in use. Useful as a salad, and also used for garnishing.

Pkt., 5c. Oz., 15c. $\frac{1}{4}$ lb., 35c. Lb., \$1.00.



GREEN CURLED ENDIVE.

BALTIMORE



EGG PLANT

GERMAN,

EGG PLANT

EIERPFLANZE

CULTURE.—Sow the seed in hotbeds early in March. When three inches high pot the young plants, using small pots, and plunge them in the same bed so that the plants may become stocky. They can be planted out from the pots when the season becomes sufficiently warm in May or June, or they can be transplanted into a second bed to make them strong until the weather is warm enough to transplant about three feet apart each way in thoroughly-worked and well-enriched soil. Draw the earth up to the stems when about a foot high. Egg Plant Seed will not vegetate freely without a strong, uniform heat, and if the plants get the least chilled in the earlier stages of growth they seldom recover. Therefore, repeated sowings are sometimes necessary. Care should be observed in cutting the fruit so as not to disturb the roots of the plants. One ounce will produce about 1000 plants.

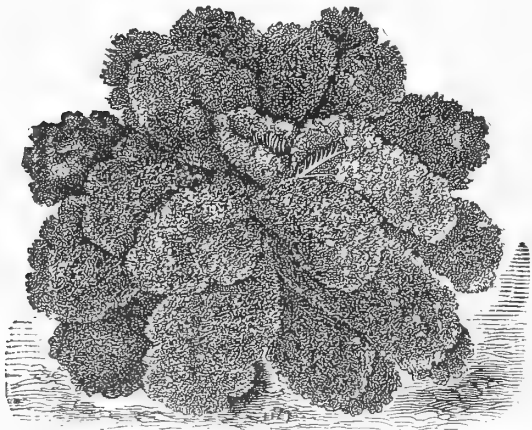
BLACK BEAUTY EGG PLANT.—The earliest of all large fruited Egg Plants, and produces fruit quite as large as the **NEW YORK PURPLE** in 10 days' less time. The fruit is symmetrical in shape, of uniform size, of a dark rich purple color, which does not fade or change to lighter color at blossom end like some other varieties. Just the variety for the market gardener and trucker for early spring trade. Pkt., 10c. Oz., 35c. $\frac{1}{4}$ lb., \$1.00. Lb., \$3.50.

NEW YORK IMPROVED LARGE PURPLE EGG PLANT.—This market garden variety has plants of strong growth, and is very productive, producing plants of large size and fruits of smooth, deep purple color until frost. Pkts., 5c. and 10c. Oz., 35c. $\frac{1}{4}$ lb., \$1.00. Lb., \$3.50.

THE FLORIDA HIGH-BUSH EGG PLANT.—Is in great demand by Southern truckers. It has a very vigorous growth and remarkably hardy. The plant grows very erect and holds the fruits clear of the ground. Pkts., 5c. and 10c. Oz., 30c. $\frac{1}{4}$ lb., \$1.00. Lb., \$3.50.

BALTIMORE EGG PLANT.—This is decidedly the best and most profitable Egg Plant in cultivation. It is large, thornless, of beautiful shape and handsome purple color. We have never seen finer specimens of Egg Plant than those grown from our seed. When inspecting the field of Egg Plants growing for seed we were surprised at the regular size and uniform, handsome color of the fruit all over the field.

Pkt., 10c. Oz., 30c. $\frac{1}{4}$ lb., 90c. Lb., \$3.00.



EXTRA CURLED NEW AMERICAN KALE.

KALE

GERMAN,

BLAETTER-KOHL

One Ounce of Seed Will Sow a Drill of About 200 Feet.

The Kales are more hardy than Cabbage, and make excellent greens for winter and spring use, and are improved by frost. For early spring use, sow broadcast in September and protect during winter. It must also be sown in April or May for later use.

DWARF GREEN GERMAN KALE.—This variety sow in September broadcast, and gather in early spring, like spinach. It may also be sown early in the spring for later use. Pkt., 5c. $\frac{1}{4}$ lb., 15c. Lb., 40c.

EXTRA CURLED NEW AMERICAN KALE.—This is an extra curled, long-standing variety of a beautiful green color; stands the winter well, and will stand longer in the spring before going to seed than any other variety. Pkt., 5c. $\frac{1}{4}$ lb., 15c. Lb., 40c.

NEW IMPERIAL CURLED LONG-STANDING KALE.—Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. Lb., 40c.

NORFOLK.—A variety used by the truckers of Norfolk for shipment North. Light green color and leaves much curled. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 75c.

KOHLRABI

1 OZ. OF SEED TO 100 YARDS
OF ROW.

WHITE VIENNA

BULB LIGHT GREEN.

FLESH WHITE.

VERY RAPID IN GROWTH.

EARLY MATURITY.

FINE IN TEXTURE, and

SYMMETRICAL IN FORM.

SUPERIOR.

Oz., 20c. Pkts., 5c. and 10c. $\frac{1}{4}$ lb., 60c.
Lb., \$2.00.

IMPROVED KOHLRABI.—Pkts., 5c. and 10c. Oz., 15c. $\frac{1}{4}$ lb., 50c. $\frac{1}{2}$ lb., 90c. Lb., \$1.75.



LEEK

GERMAN, LAUCH

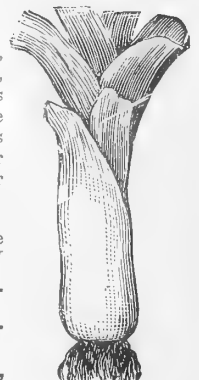
1 OZ. OF SEED TO 150 FEET OF ROW.

Select good Onion soil, manure liberally, plant in April in drills 6 to 8 inches deep, and 18 inches apart, and thin to 9 inches apart in the drill. Gradually draw the earth around the plants until the drills are filled level with the surface. Draw for use in October. To be used in soups or boiled as Asparagus.

EXTRA LARGE MAMMOTH.—A large and strong plant; hardy. The best variety for general culture. Pkt., 5c. Oz., 20c. $\frac{1}{4}$ lb., 35c. Lb., \$1.00.

MUSSELBURGH.—Oz., 20c. $\frac{1}{4}$ lb., 35c. Lb., \$1.00.

LARGE ROUEN.—Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 35c. Lb., \$1.00.



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Lettuce requires a rich and rather moist soil. The rows should be about 12 inches apart, and the plants thinned to 10 or 12 inches apart for the leading varieties. The more rapid the growth, the better the quality. Some varieties are peculiarly adapted for early culture, others for summer growth.

G. & T. Co.'s White Seed Summer Lettuce

The Best Summer Lettuce Ever Introduced.—This variety, introduced by us recently, has exceeded our expectation. Those who purchased it were delighted with their crops, and came back for more seed. This Lettuce will stand the summer heat better than most sorts, and makes magnificent heads. We expect this sort to grow in favor wherever known. It has a beautiful green color; head solid; light leaves, nicely crinkled; very tender, and of most excellent flavor. **Pkt., 5c. Oz., 20c. ¼ lb., 40c. Lb., \$1.25.**

G. & T. CO'S SUMMER LETTUCE (Black Seed).

This Lettuce is becoming very popular among gardeners for summer use. It produces a splendid large, solid head, of the Cabbage type, remaining a long time in prime condition without going to seed; in fact, it is often necessary for the seed growers to slit open the head in order to allow the seed stalk a chance to develop. It is of a light green color, fine quality, crisp, tender, and nearly every plant will make a fine, solid head in the hottest weather, when other varieties refuse even to grow. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 30c. Lb., \$1.00.**

IMPROVED NEW YORK, OR "WONDERFUL."

Plants of extra large growth, producing heads of immense size under favorable conditions. Inner portion is beautifully blanched and stands for a considerable time before running to seed. Outer leaves a deep, rich green. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 30c. Lb., \$1.00.**

CALIFORNIA CREAM BUTTER LETTUCE.

This is fairly well known, and has given good results with the growers. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 35c. Lb., \$1.00.**

MAY KING

A very early new variety, forming fine hard heads within a few weeks after planting. It is medium sized, light green, with buttery but crisp heads. There is just a faint tint of brown on the head.

We have had no end of praise from our friends and customers who have tried this variety. It is essentially a spring sort, and does well all summer. Being of rapid growth and quick heading, it is especially recommended for home garden, and is universally esteemed. **Pkt., 5c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.**

"ICEBERG" LETTUCE.

The heads are large, crisp, solid and tender. **Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 35c. Lb., \$1.00.**

EARLY PRIZE HEAD (Seed White)

A large, clustering, non-heading lettuce, most excellent for the home garden and undoubtedly the most easily grown variety in cultivation. It is too tender, however, to stand shipping or handling on the market. The leaves are finely curled and crumpled, bright green tinged with brownish red, and are very crisp, tender and sweet. **Pkt., 5c. Oz., 15c. 2 Oz., 25c. ¼ lb., 40c. Lb., \$1.25.**

EARLY WHITE CABBAGE, OR BUTTER.

A broad-leaved, vigorous-heading sort; white, showy and desirable. **Pkt., 5c. Oz., 20c. ¼ lb., 30c. Lb., \$1.00.**

EARLY CURLED SIMPSON.

Black seed. Very early; excellent for salads; forms a compact mass of leaves. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 30c. Lb., 90c.**

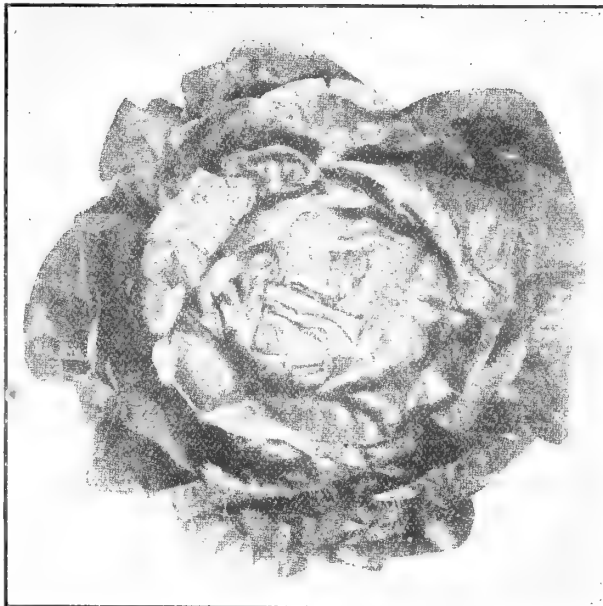
TENNIS BALL.

Black seed. A favorite forcing variety; a very hard head. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 30c. Lb., 90c.**

Romaine or White Paris Cos

The best of the Cos or celery varieties. Forms a large light-green plant with the head well folded and quite solid. Cos lettuce is also called Romaine, and is very popular with our foreign population, for it is highly prized in England and France, while little known to our own people. **Pkt., 5c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.**

LETTUCE German, Lattich



U. S. SUMMER LETTUCE.



ROMAINE, OR WHITE PARIS COS LETTUCE.

LETTUCE--Continued

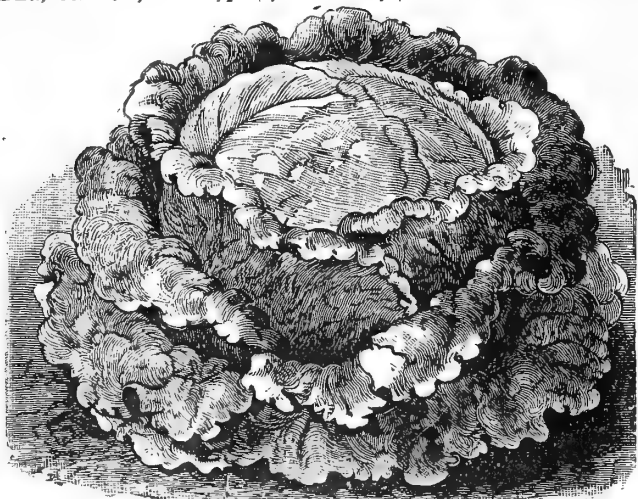
BALTIMORE CABBAGE LETTUCE

G. & T. CO.'S TRUE STOCK.
Large Heads, Beautiful Heads, Solid Heads;
Stands Heat Well. Best of all for
FALL PLANTING.

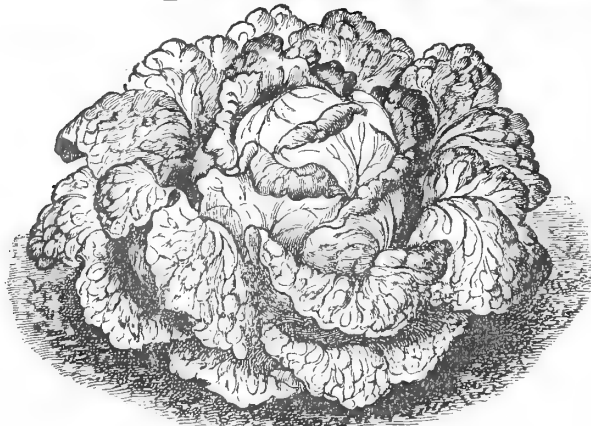
This new Lettuce, which we introduced a few years ago, and claimed to be one of the best ever put on the market, and which produced such a sensation among the large growers who tried it, still holds a high place among lettuce. As soon as the growers discovered its merits they came for more seed, and recommended it to all their friends; these, in turn, were delighted with their crops, as the result more than justified all we claimed for it. A grower at Gardenville, Md., says: "I had 3000 heads of your Baltimore Cabbage Lettuce, and they all headed but one; they are slow to run to seed." The heads are large and solid; color pretty light green, and very slow to seed; in fact, it is just what the truckers and gardeners want. A large trucker in New Jersey writes: "The Baltimore Cabbage Lettuce I had of you was certainly very fine." **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.25.**

LARGE LOAF LETTUCE.

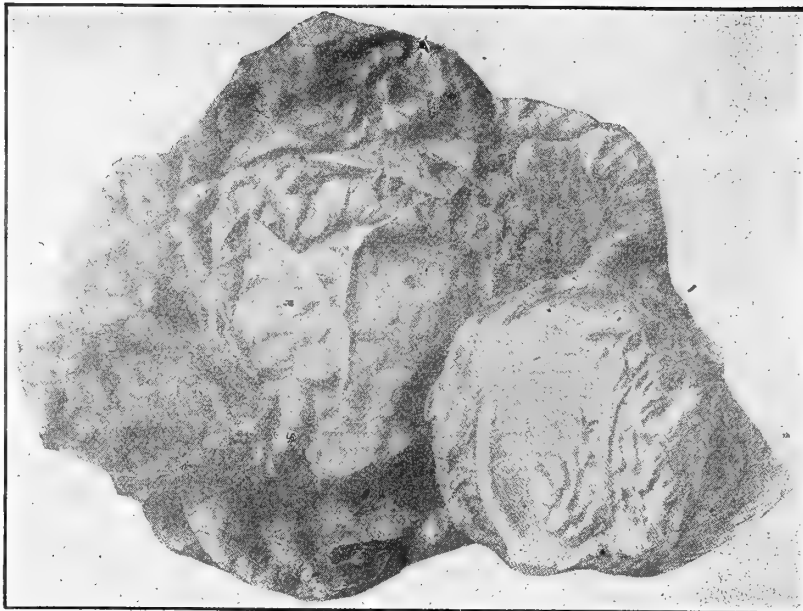
This is so well known to truckers and gardeners around Baltimore and Norfolk that for them it scarcely needs description. For the benefit of those who are not acquainted with it, would say it makes large, compact heads, is of beautiful light green color, very tender and crisp. This is unsurpassed for frame use, and is also an excellent outdoor lettuce for fall or early spring. **Pkt., 5c. Oz., 20c. ¼ lb., 40c. Lb., \$1.25.**



LARGE LOAF LETTUCE.



BIG BOSTON.



BALTIMORE CABBAGE LETTUCE.

MAMMOTH BLACK-SEEDED BUTTER LETTUCE.

A strain of large, smooth-leaved, head lettuce, forming very large, solid cabbage-like heads of thick, brittle leaves, the inner ones becoming very white, tender and fine flavored.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.25.

BALTIMORE OAK LEAF.

This lettuce will resist the heat of summer and stand longer before running to seed than any variety we have ever known. It makes a large, solid head, and is very popular with those who know it.

Pkts., 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

BIG HEAD LETTUCE.

The "Big Head" is certain to please market gardeners and truckers, because it always produces large, salable heads. It is very solid and crisp, of tender quality, which makes it attractive. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 35c. Lb., \$1.00.**

HANSON.

A variation of the Indiana, forming a half-closed head.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 30c. Lb., \$1.00.

BOSTON MARKET.

White seed. A celebrated variety in New England, of good heading habit; small, early and compact; quite desirable.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 30c. Lb., \$1.00.

GRAND RAPIDS.

This variety is largely grown for shipment, and is considered by many the best loose-headed Lettuce for forcing under glass. Leaves medium size, of light, yellowish green color, much crimped and frilled, thin, but of very upright growth; crisp, tender and of good quality. Owing to its upright habit, it may be planted very closely. It is of extremely rapid growth; not very liable to rot; will stand without spoiling a week to ten days after it is fit to cut, and retains its freshness a long time after cutting.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 30c. Lb., \$1.00.

DEFIANCE.

Stands summer heat better than any other variety; one of the finest large-growing varieties. It forms very large, solid heads, so firm they have to be cut open to allow the flower heads to come through.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.25.

SALAMANDER (Black Seed).

An excellent sort for spring or summer use; forms good-sized heads of excellent quality.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 30c. Lb., \$1.00.

BIG BOSTON.

The same in color, shape and general appearance as the Boston Market, double the size. A most desirable sort either for forcing in cold frames or planting in open ground. Is popular with truckers, as it makes large, solid, salable heads. Very highly recommended by those who have tried it.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 30c. Lb., \$1.00.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Muskmelon

GERMAN, MELONE

NEW
MARYLAND



CULTURE.—One ounce of seed to 50 hills. Sow about the last of spring or the first of summer in hills of light, rich, sandy soil, 4 feet apart, allowing but three plants to grow in each hill; after they have grown about a foot long, pinch off the points of shoots, which causes the vines not only to become stronger, but makes them produce lateral branches and prove more productive and mature earlier. It should not be grown near squashes, cucumbers or pumpkins, as the flavor will be affected in consequence.

NEW MARYLAND CANTALOUPE.—The latest acquisition to our collection of muskmelons. It is earlier, larger and cuts better than the Rocky Ford. Flesh is green, of fine flavor and heavily netted, making it the most attractive melon on the market. A sure moneymaker. Our truckers around Baltimore will have no other after planting our New Maryland. **Pkt., 5c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.**

ROCKY FORD MELON

This has become one of the most popular of small or basket melons, largely owing to the fact that growers in the **Rocky Ford** region pack and ship their fruit in a most attractive manner. The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet and high-flavored.

We have an exceptionally fine stock of this variety grown from choice selected specimens. **Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 65c.**

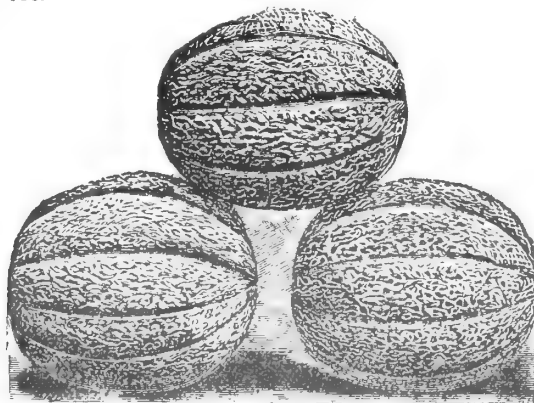
Baltimore Nutmeg Cantaloupe

The Old Standard Variety That Has Found Favor
Wherever Grown.

The stock seed of this splendid melon was secured from a trucker who enjoys the reputation for raising the finest Cantaloupes that come to the Baltimore market. The writer also tested the fruit, and found it to be of excellent flavor. It is green-fleshed, and the rind is handsomely netted. It is well known and popular with the truckers and market gardeners of Baltimore, Washington, Norfolk and other places—in fact, it is a leading sort all over the country. **Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.**

IMPROVED JENNY LIND.

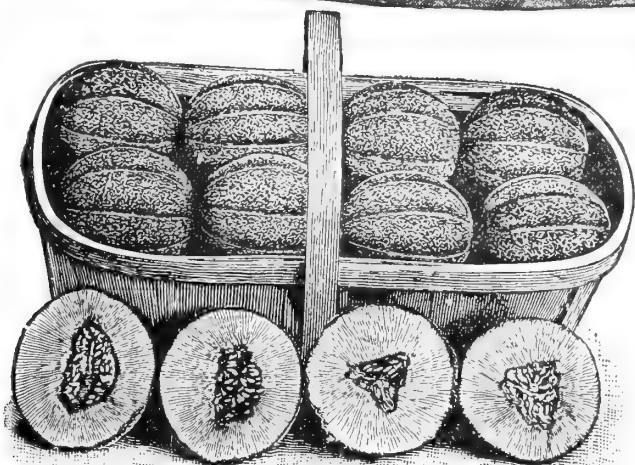
A small, early variety of surpassing good quality, highly recommended for family garden. We consider this the most delicious Cantaloupe we have ever eaten, and while the fruit is small, it is an abundant bearer. A market gardener having this sort for sale would in a short time have no difficulty in disposing of all he could raise. **Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.**



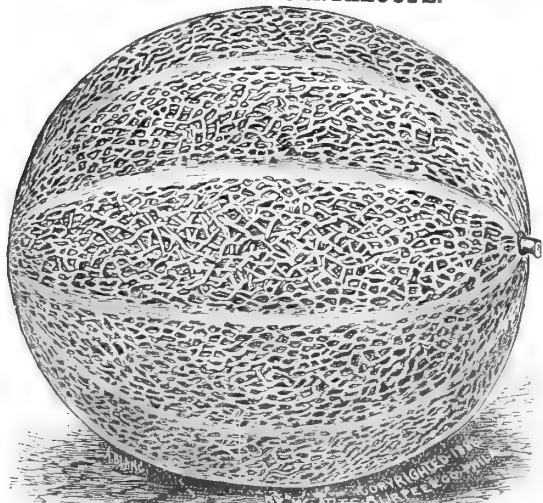
EARLY NETTED GEM.

EXTENSIVELY grown, and many prefer it to all others for table use. Grows remarkably uniform; thick meated; flesh light green in color, and of fine, luscious flavor; skin green, regularly ribbed and thickly netted; very productive and extra early in ripening; will keep for nearly a week after picking, and is especially suited for shipping in baskets or crates.

Pkts., 5c. and 10c. ¼ lb., 25c. Lb., 65c.



ROCKY FORD CANTALOUPE.



BALTIMORE NUTMEG.
EMERALD GEM.

Meat, salmon color, exceedingly sweet and delicious; very early and prolific. One of the best for family use. Its appearance is not attractive, but try it, and you will want it again. **Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.**

OSAGE, OR MILLER'S CREAM.

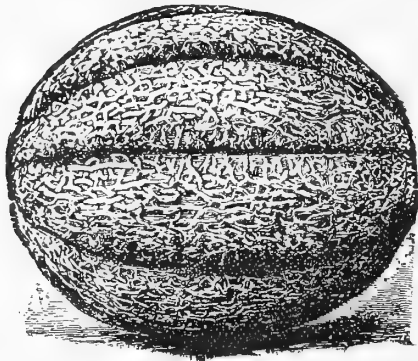
Most delicious. The flesh is a rich salmon color, very thick, sweet and rich; rind very thin and finely netted.

Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., 90c.

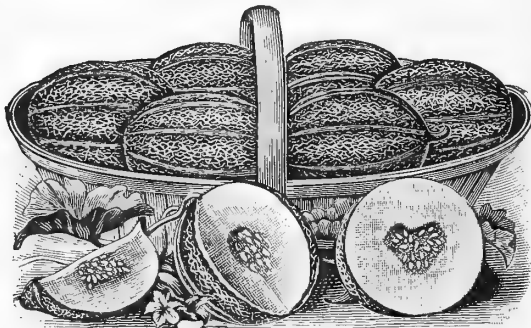
MUSKMELONS—CONTINUED

KNIGHT CANTALOUPE

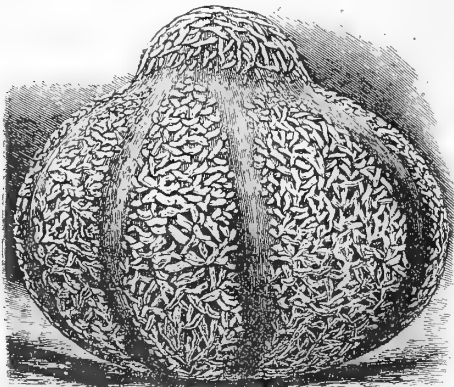
A NEW EARLY CANTALOUPE OF SUPERB QUALITY AND AT THE SAME TIME MAKES AN EXCELLENT MARKET OR SHIPPING MELON



KNIGHT CANTALOUPE



PAUL ROSE



NORFOLK BUTTON

An improved strain of Early Jenny Lind, having a nub or button on the blossom end, which gives it a distinction over all other varieties. It is very early, of remarkably fine texture and delicious flavor, and produces fruits of the finest quality. It is extra fine for both home and market use. We are putting the above on the market for the first time, and have but a limited supply of seed. Those who wish to secure a trial order will do well by placing their order at once. **Pkts., 5c. and 10c. ¼ Lb., 25c. Lb., 90c.**

EXTRA EARLY HACKENSACK

Netted green flesh and excellent; very showy market variety and an excellent keeper. Ten days earlier than the Old Hackensack. **Pkt., 5c. Oz., 10c. ¼ Lb., 25c. Lb., 75c.**

LONG ISLAND BEAUTY—Pkt., 5c. Oz., 15c. ¼ Lb., 25c.

This new Cantaloupe has been grown in Anne Arundel county for the past several years, and has created a furore with our truckers, on account of its earliness, productiveness, uniformity in shape and appearance and its fine table qualities. It matures about a week earlier than the regular Rocky Ford, is larger in size and makes a most attractive and salable melon. It has thick, green flesh, shading to orange at the center. The fruits are oblong in shape, well ribbed and well netted. It is a leader, both for planting for home use and market and for shipping. Its early maturity, together with its fine qualities, are strong points in its favor. **Pkt., 5c. Oz., 15c. ¼ Lb., 35c. Lb., \$1.00.**

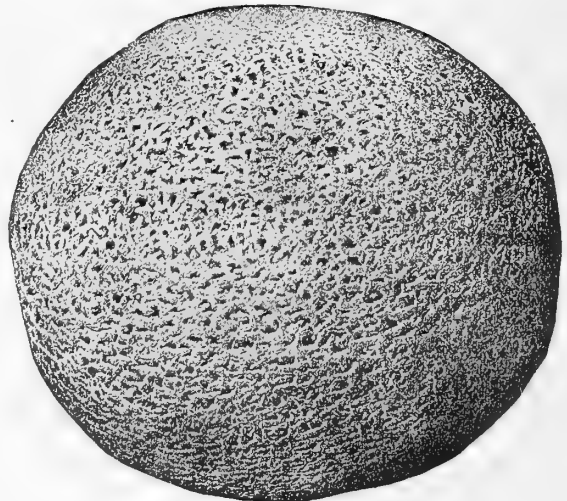
PAUL ROSE.—In this new sort are combined all the good qualities of the Netted Gem and the Osage, the varieties from which it originated. The fruit is oval, about 5 inches in diameter, and in shape and general appearance similar to the well-known Netted Gem or Rocky Ford. The firm flesh is a rich orange-red color, like that of the Osage, but even sweeter and higher flavored, retaining its good qualities quite to the rind. We think it really has no equal as a market melon for professional melon-growers, and it is one of the very best sorts for the home garden. **Pkt., 5c. Oz., 10c. ¼ Lb., 30c. Lb., 75c.**

ANNE ARUNDEL CANTALOUPE
(Original Stock.)

This handsome melon, introduced by us several years ago, was for years a special favorite with a number of the leading growers of Anne Arundel county, Maryland. This county is justly celebrated as growing the finest Cantaloupes in the country. We might almost say the finest in the world. Knowing its value, we selected the stock and placed it before our customers. It has met every promise we made for it upon its introduction. **Pkt., 5c. Oz., 10c. ¼ Lb., 25c. Lb., 75c.**

EDEN GEM OR NETTED ROCK

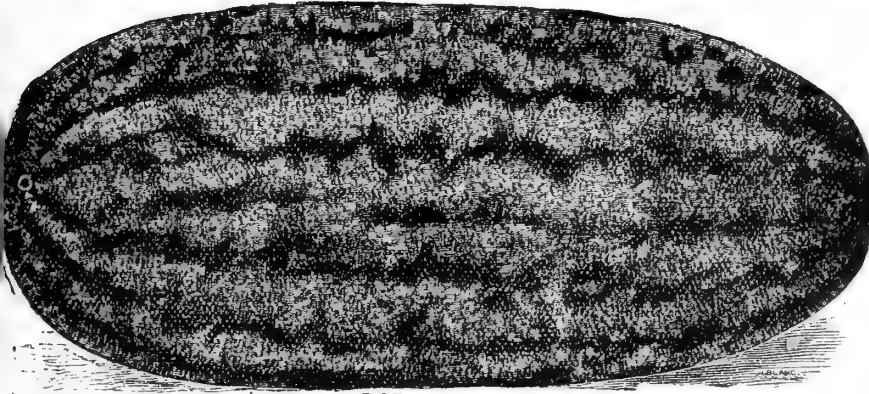
One of the handsomest melons in our list. Splendid shape and thorough netting and absence of deep spaces between the ribs, indicating strong shipping properties. The flesh is unusually thick, the seed cavity very small, the flavor exquisite. A heavy yielder, the melons very uniform, but few run too large, and still fewer too small. For shipping we recommend it highly; also for home growers. **Pkt., 5c. Oz., 10c. ¼ Lb., 35c. Lb., \$1.00.**



Netted Rock or Eden Gem Cantaloupe.

WATERMELONS

GERMAN—WASSER MELONE



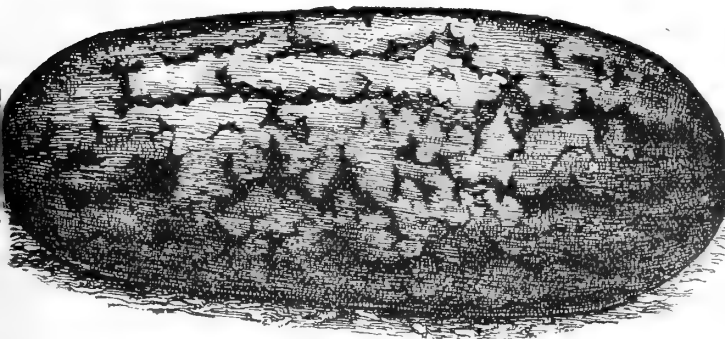
LORD BALTIMORE.

CULTURE.—One ounce of seed to 30 hills. Watermelons require a rich, sandy soil for best development. Cultivate the same as for cantaloupes, except that the hills should be eight or ten feet apart.

LORD BALTIMORE

It is very early, of oblong shape, and the flesh is of handsome crimson color, deliciously sweet and extending close up to the rind. It has a thin, hard rind, beautifully mottled light and dark green. Its perfect shape, faultless color, fine texture and excellent flavor combine to make it one of the very best melons that grows. It is a good shipper, and beats all others as a seller.

Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 60c.



FLORIDA FAVORITE.

FLORIDA FAVORITE

This we consider one of the richest and sweetest flavored melons grown, of medium size and prolific. The best of all for family garden. It is now very popular with the truckers and melon-growers of Maryland and Virginia, and sells readily in the Baltimore markets.

Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 50c.

McIVER'S SUGAR WATERMELON.

In outward appearance it somewhat resembles the old Rattlesnake. The quality is much superior. It is an extremely productive and hardy variety.

Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 50c.

FORDHOOK EARLY.

This is a very early variety, growing to a good size; color, medium green; form, nearly round; seeds, white; flesh, bright red and very sweet.

Pkt., 5c. Oz., 10c. ½ Lb., 20c. Lb., 60c.

BLACK BOULDER.

It is enormously productive, reaching a mammoth size, with rich, dark green skin. It cuts equal to any melon we have ever eaten, and its shipping qualities are phenomenal, no other melon equaling it in tough skin and rind; in this respect even superior to the Kolb Gem.

Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 50c.

DARK ICING.

An extra early and extra good melon for home use and nearby market. One of the most delicious of melons; rich red and surgary to the very thin rind.

Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 60c.

TRIUMPH WATERMELON

Is very prolific, very early and of uniformly large size. The rind, like Duke Jones, is of dark green color; the seed is exactly the same color as that of Kolb Gem.

Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 50c.

GRAY MONARCH, OR LONG WHITE ICING.

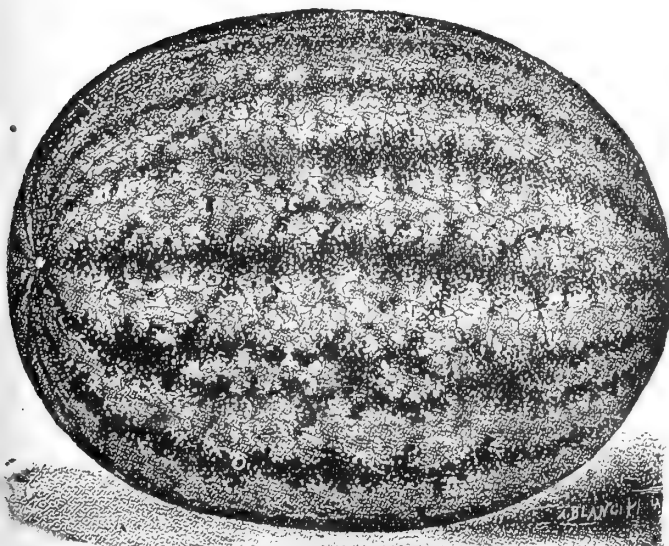
This distinct melon is without a doubt one of the largest of all, frequently attaining a weight of 70 pounds and over. The skin is a mottled gray color, shape long, flesh bright crimson, and of sweet, delicious flavor. It is also a fine shipper, carrying well long distances and bringing very high prices.

Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 50c.

DUKE JONES WATERMELON

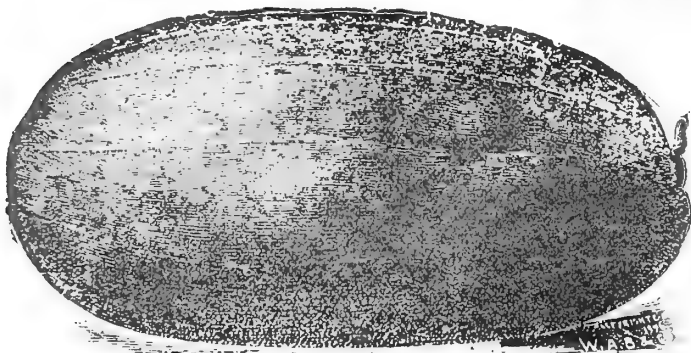
In shape the **DUKE JONES** resembles very closely the Kolb Gem. The rind is darker green in color, with indistinct irregular stripes of dark and light green alternating; in general appearance it is a dark green melon. It averages very large in size, comparatively no small melons; is very productive; it is also very early in maturing.

Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 50c.



DUKE JONES.

WATERMELONS—CONTINUED



TOM WATSON.

TOM WATSON (New).

A recent introduction. A large oblong melon, dark green skin, with thin, tough rind, which gives it excellent shipping qualities. Melons are produced from 18 to 24 inches long and from 8 to 12 inches in diameter. Flesh, deep red, crisp, melting and of the finest flavor. Heart large, with little or no core. One of the best eating melons known.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 60c.

RATTLESNAKE WATERMELON.

Large, oblong, striped and mottled; flesh bright red; a good shipper; a favorite variety in the South.

Pkts., 5c. and 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c.

DIXIE.

It is earlier and larger than the well-known and popular Kolb Gem, and in color a darker green, with beautiful stripes, making it one of the handsomest melons on the market. Flesh deep red, sugary and melting.

Pkts., 5c. and 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c.

SWEETHEART.

An entirely distinct and handsome new Watermelon. Vine vigorous and productive, ripening early. Fruit large, oval, very heavy, uniformly mottled light and dark green. Flesh bright red, solid and very sweet.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c.

KLECKLEY'S SWEETS.

Skin dark green, thin rind, flesh scarlet, very solid, firm and most luscious quality for the home market or family garden. It is decidedly one of the best.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 60c.

BLUE GEM.

This splendid Melon resembles the Kolb Gem in shape, and is one of the very best shippers and table melon; is of a dark bluish color, with small grayish stripes. Is much superior to the Kolb Gem. Very productive, and is handsome and showy.

A grower in Dixie (Georgia) says: "If you want a shipper that will go around the world, you can safely select the **BLUE GEM**."

Pkts., 5c. and 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c.
5 lbs., \$2.25.

KOLB'S GEM.

This is one of the largest, most productive, best keeping and best shipping Watermelons grown. Sells readily at the highest market prices. In fact, it is so well known that it speaks for itself. Our stock of this comes direct from the original grower. Special prices on large quantities.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c.
Lb., 40c.

BLACK STRIPED KOLB GEM WATERMELON.

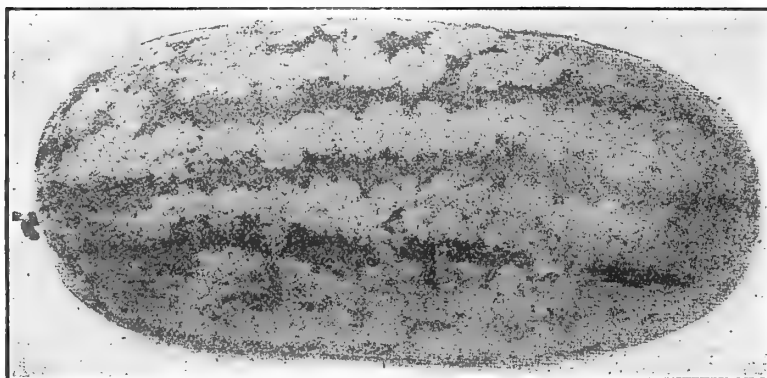
The size of this fruit is uniformly large; shape, oval; color, a rich dark green, with fine stripes of lighter shade; much darker and richer than the old well-known Kolb Gem. The exceptionally strong rind makes it an excellent shipper.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c.
Lb., 50c.

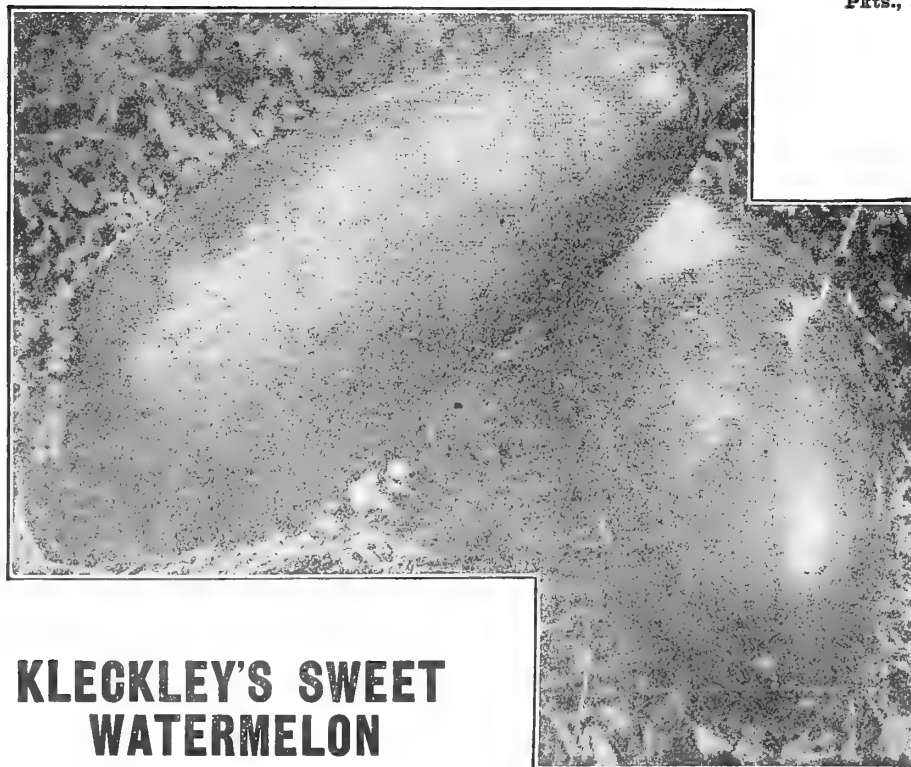
CITRON—For Preserves.

Fruit round and handsome. Used in making preserves only.

Pkts., 5c. and 10c. $\frac{1}{4}$ lb., 20c.
Lb., 75c.

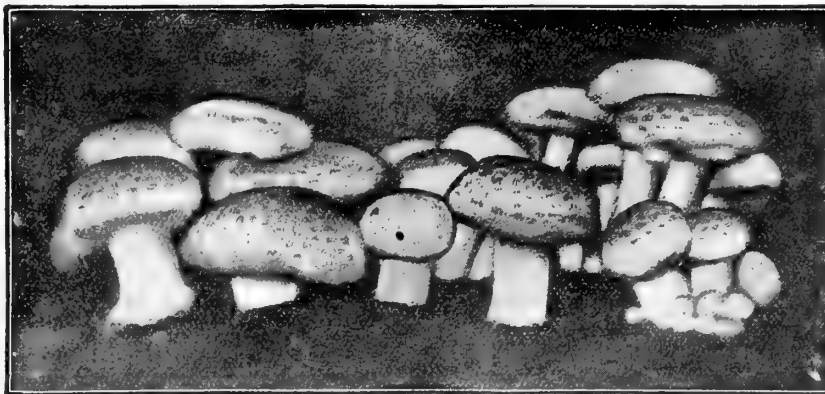


GEORGIA RATTLESNAKE.



KLECKLEY'S SWEET WATERMELON

ENGLISH MILL TRACK MUSHROOM SPAWN



Lb., 15c. By Mail, 20c. Lb., Postpaid. 10 Lbs., \$1.00. 100 Lbs., \$8.00, by Freight or Express.

CULTIVATION.

The cultivation of the Mushroom is a very simple matter and requires only ordinary intelligence and care. The materials needed are fresh horse manure, good soil and live spawn. The manure should not be too short, as it does not combine the necessary qualities. Long strawy litter, plentifully mixed with short manure, makes by far the best beds, as it does not heat too violently, decomposes slowly and retains its heat for a long period. Put in a heap and turn every three or four days to permit the escape of noxious gases and prevent burning. When ready for use it should be as hot as can be borne comfortably by the hand, and should also be moist. Make the beds 3 feet wide at the base, 2½ feet high, and of any desired length. The manure, when in proper condition, should be quickly handled to prevent the loss of heat, and be beaten down to make the heap firm and compact, and covered with long litter. The bed should within a few days warm to a temperature of 110 to 120 degrees. Never spawn a bed when the heat is rising, but always on the decline and under 90 degrees. Have a ground thermometer, and keep it plunged in the bed; by pulling it out and looking at it you can ascertain exactly the temperature of the bed. Should the temperature not exceed 100 or 110 degrees, no alarm should be felt, for if the manure was fresh it will likely produce a good crop. When the heat has decreased to 90 degrees, the bed is ready to receive the spawn, which is done by raising the manure with the hand and inserting pieces of spawn 2 inches square and 9 inches apart each way. At the expiration of a few days the bed may be covered with soil to the depth of about 2 inches. If in a closed cellar or mushroom house, wait about ten days, but if in open shed five days will do. If the soil is poor, add a liberal quantity of bone meal. It requires a period of 5 to 7 weeks before they are ready for use.

Two pounds of spawn are sufficient for a bed 3 feet by 6 feet.

Mushrooms can be readily grown in cellars, stables, sheds or pits. Many are successively grown on a shelf in an ordinary cellar, and yield sufficient crops to compensate the grower for his effort. The space under greenhouse benches or stagings will suit them exactly, using materials in the same manner as described.

MUSHROOMS ON PASTURE LAND OR LAWN.

About the first of June take pieces of spawn an inch square and lift the sod with a trowel or spade just sufficient to get a spawn under it, and then press the soil down hard. Set the spawn 1 to 2 feet apart. In a favorable season a crop may be expected in 3 or 4 months from the time of planting.

OKRA, OR GUMBO



Select warm location and rich soil, and plant when the ground becomes warm, in rows three feet apart, thinning plants a foot apart in the row. As the seeds are liable to rot in cool weather, they should be sown thickly. The pods are used to thicken soup, being gathered when young. It is one of the most wholesome vegetables in use.

DWARF OKRA.

This is the preferred kind with the growers; is of dwarf habit and very productive.

Pkt., 5c. Oz., 10c. ¼ lb., 15c.
Lb., 50c.

WHITE VELVET.

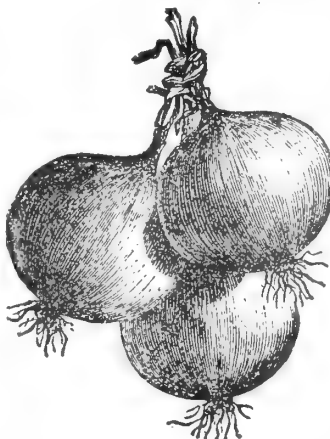
It is very distinct, and the pods are perfectly round and smooth, of an attractive white velvet appearance, and of superior flavor and tenderness. The pods are of extra large size, and produced in great abundance.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

ONION SETS

CULTIVATION FOR SETS.

Have a clean and very rich soil, which should be thoroughly cultivated, or it will not do well enough to pay for the trouble. The most successful growers work their ground several times in the fall to kill out the weeds and get ground in nice condition. Use well-rotted manure freely, and be sure to get the seeds in as early as possible in the spring, no matter if it is ever so cold or unpleasant, and keep the soil mellow and clear of weeds, and if seed is good you will have a large crop of onion sets. On no other condition can you hope for success. Disturb the roots of the onion as little as possible, either in thinning or hoeing, and never hoe earth toward them to cover or hill, as we do most other things.



Sow the seed in drills about 12 inches apart. It will require from 40 to 60 pounds to sow an acre.

WHITE—Qt., 20c.; mailed, 30c. **YELLOW**—Qt., 20c.; mailed, 30c. Write us for quotations by the bushel.

ONION SEED GERMAN, ZWEIFEL

CULTIVATION TO GROW LARGE ONIONS FROM SEED.—The seed should be sown as early as possible in the spring, as they grow much better during the cool weather, and should make most of their growth before the hot weather sets in. Sow 5 pounds of seed to the acre for large onions.

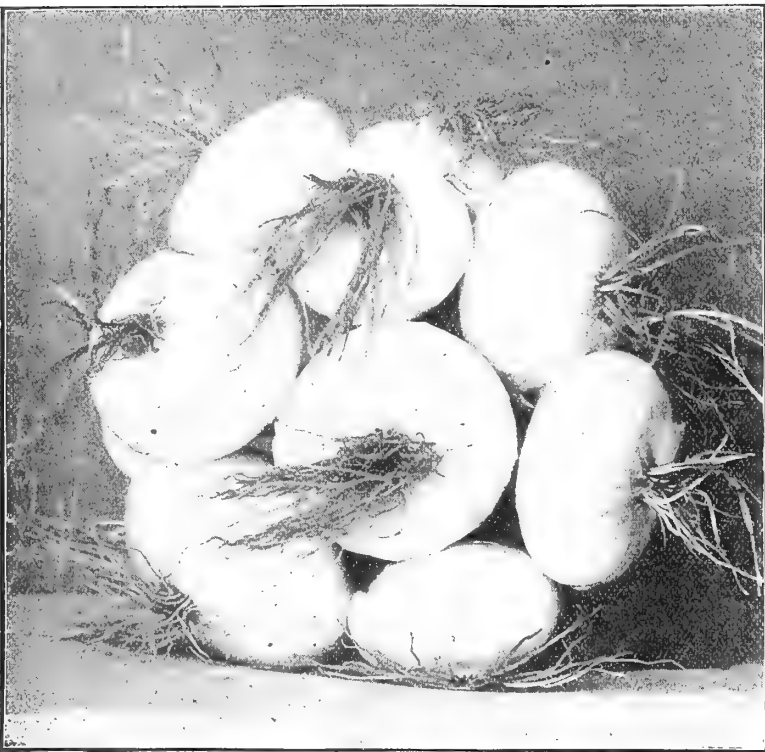
THE NEW ONION CULTURE.—Sow the seed in hotbed and transplant early as possible to open ground. They can be grown very successfully by this plan.

WHITE SILVERSKIN, or PORTUGAL.—A good variety for family use, skin and flesh pure white, mild flavor and flat shape. The best white onion to grow largely for sets. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 75c. Lb., \$3.00.**

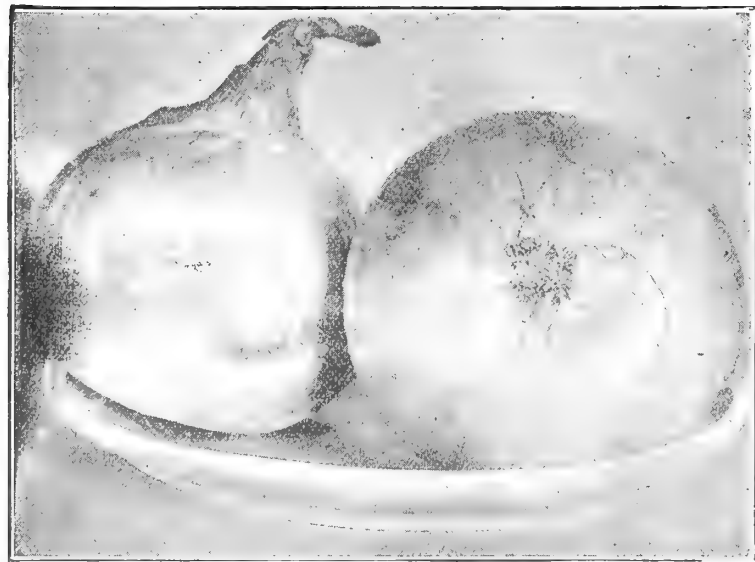
WHITE PEARL ONION.—Earliest of all, growing with all the rapidity of a summer radish. Pearly white, waxy and transparent. Form flat and broad, flavor very mild, and it can be eaten raw almost like an apple. On rich soil it will grow very large. This is an elegant sort to sow for large onions, because of its rapid growth and fine quality. **Pkt., 5c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.**

AUSTRALIAN BROWN—A Valuable Long-Keeping Onion.—This new Onion, introduced into the United States a few years since, has met with wonderful success, and is pronounced the best keeper of all onions. The outside skin is of a deep amber brown, distinct from all other onions, extremely hard and firm, of fine flavor, and will keep almost indefinitely. Australian Brown is the only onion Australian growers will plant. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.50.**

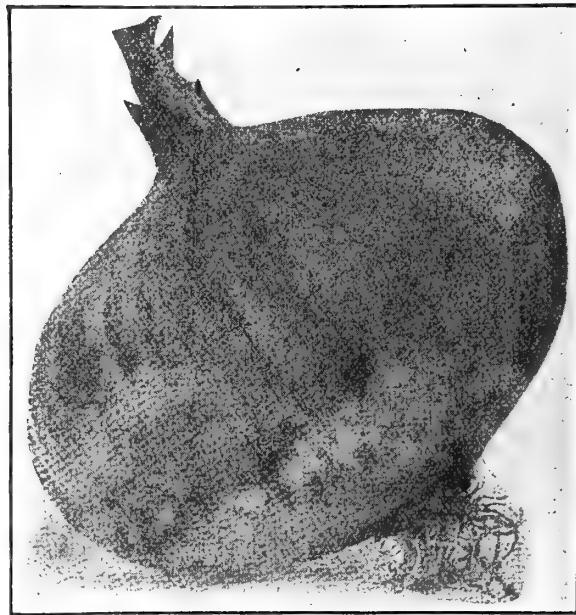
WETHERSFIELD LARGE RED.—Well-known and favorite sort. A large yielder and good keeper. **Pkt., 5c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.**



WHITE S. S. ONION.



YELLOW DANVERS ONION.



YELLOW DUTCH, or STRASBURG.

YELLOW DUTCH, or STRASBURG.—The most popular and best variety for set purposes. Is similar to the Yellow Danvers. Flat in shape, color and size, but as a set onion it has the quality of ripening down earlier and more uniformly. **Pkt., 5c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.**

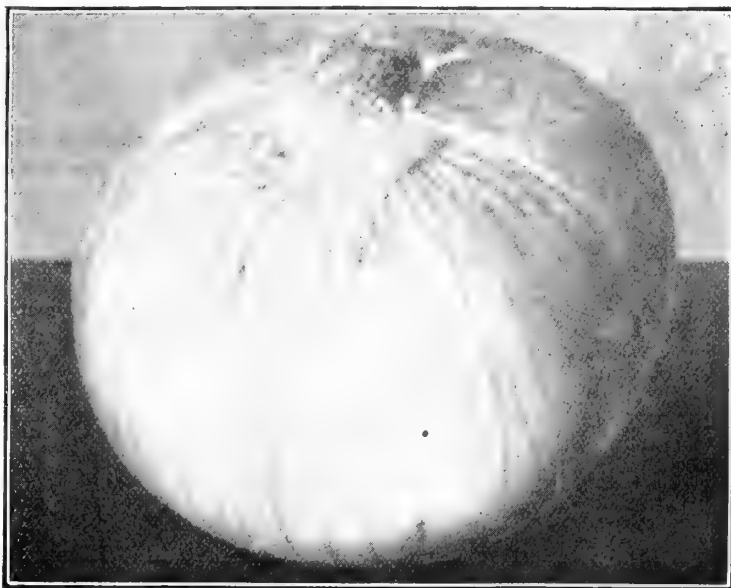
YELLOW GLOBE DANVERS.—A very handsome, round, yellow onion; a large yielder and splendid keeper; the preferred sort with market gardeners and large growers all over the country. We unhesitatingly recommend it for growing either sets or large onions. **Pkt., 5c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.**

YELLOW FLAT DANVERS.—A good onion, both for the home garden and for market—combining reliability in ripening with large yield. It ripens more surely in moist locations than do the globe-shaped varieties, as well as earlier. The thin-necked flattened bulbs are quite thick through; light yellow skin; fine-grained, mild, white flesh. **Pkt., 5c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

ONIONS—CONTINUED

PRIZE-TAKER.—This is the large, beautiful onion that is seen every fall offered for sale at the fruit stores in Baltimore and other large cities. It has a rich straw color, and is of enormous size. Although of such large size, it is very hardy and an excellent keeper. The flavor is mild and delicate, making the Prize-taker a favorite variety for salads. By sowing this sort early you can raise a large crop of large onions the first season with very little trouble. All that is necessary is good ground, proper cultivation, and not to have them too thick. Those of our growers who have tried this variety have had remarkably fine success. **Pkt., 5c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.**



PRIZE-TAKER ONION.

PARSNIP

The Parsnip will nourish best and give the longest, largest and smoothest roots in a very deep, rich soil—one that has been made rich from manure the previous year. Fresh manure makes the roots somewhat ill-shaped. Sow as early in the spring as the ground can be made ready, pretty thickly in drills from 12 to 18 inches apart, and about an inch deep. Thin the plants to five or six inches apart.



HOLLOW CROWN OR SUGAR

The Hollow Crown is superior in quality to all other varieties, and the preferred kind with Baltimore gardeners. The roots are smooth, tender, handsome shape and early. We have the finest stock of Hollow Crown Parsnips that we know of in this country. **Pkts., 5c. and 10c. ¼ lb., 20c. ½ lb., 30c. Lb., 50c.**

MUSTARD

GIANT CURLED.—Highly esteemed in the South, where the seed is sown in the fall and used in the spring as a salad. Our stock is the true curled leaf, and produces plants two feet high and of greater breadth, forming enormous bunches.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.
WHITE MUSTARD.—¼ lb., 10c. Lb., 30c.



NASTURTIUM

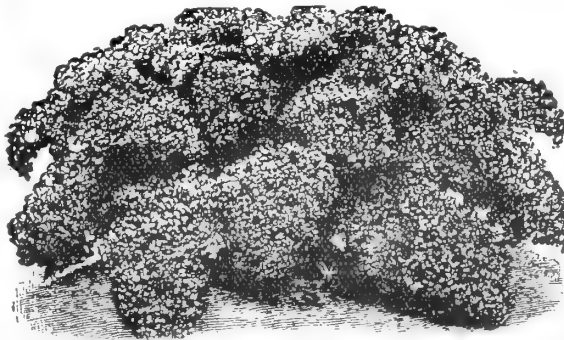
Plant in May, the climbing varieties to cover arbor or fence, and the dwarf for beds or hanging baskets. The leaves are used for salad, and the seeds, when soft enough to be penetrated by the nail, for pickles.

TALL.—Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

DWARF.—Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

PARSLEY

SELECT rich soil; sow the seed in drills one foot apart, covering half an inch deep. It would be well to firm the soil with the foot after sowing the seed. As the seed is usually from 15 to 25 days in germinating, it will be necessary to sow early. Thin plants to 4 inches apart when 2 inches high. The beauty of the plant may be increased by several successive transplantings. It is used principally for flavoring soups, etc., and for garnishing in its natural state.



DWARF EXTRA CURLED.—The most beautiful and valuable variety in use; handsome bright green color; finely crimped, beautifully curled.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

MOSS CURLED.—A very select crimped variety.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

PEAS

NOTICE.—In ordering Peas to be sent by mail, please add 6c. per pint to pay postage. For larger quantities see table on page 1.

The dwarf varieties should be liberally manured; the tall sorts will run too much to vine if heavily manured, it being better to depend on the richness of the land that was previously in good condition. Plant the dwarf in rows two feet apart; those varieties attaining a height of from two to three feet in rows three feet apart, and the rows of the tallest sort four feet apart. Bushing the tall kind when six inches high, on poles set every six or eight feet, with twine fastened to them about four inches apart, will answer finely.

G. & T. CO.'S FIRST EARLY PEAS

(In Sealed Bags, Thoroughly Rogued and Hand-Picked.)

This is the earliest of all and the most profitable early market Pea, because of its early maturity, uniformity of growth, and ripening and its productiveness. It ripens up so evenly as only to require about two pickings to secure the crop. It is grown from selected stock, under our own supervision, and the greatest care is exercised to keep it up to the highest standard of quality. It is a great favorite with the truckers, and is largely used by private families. Our sales of this sort increase annually.

Pint, 15c. Quart, 30c. Peck, \$1.00. Bushel, \$4.00.

NEW LARGE PODDED ALASKA.—In general habit and growth resembles the well-known Alaska. Ripening about three days later, but with much longer and thicker pods. Handsomely shaped, of a beautiful dark green color, which is retained long after other varieties have lost their usefulness. The seed is somewhat wrinkled and dented. We strongly recommend this new Pea to gardeners, truckers and shippers as a most productive and large extra early variety.

Quart, 30c. Peck, \$1.25. Bushel, \$4.50.

ALASKA.—Our best rogued and hand-picked stock. Height, 26 inches. The earliest Blue Pea; very uniform in growth and time of ripening. The dark green color of pods makes this a most desirable sort for canners and shippers, as it can be carried long distances without losing color.

Quart, 30c. Peck, \$1.00. Bushel, \$4.00.

DEXTER (Genuine Stock).—Thoroughly rogued and hand-picked.

Quart, 30c. Peck, \$1.00. Bushel, \$4.00.

RURAL NEW YORKER.—Height, 2½ feet. In maturity it is among the the early varieties. Quarts, 30c. Peck, \$1.00. Bushel, \$4.00.

FIRST AND BEST.—Height, 2½ feet. Grown with special care. One of the early varieties. Quart, 30c. Peck, \$1.00. Bushel, \$4.00.

TRIUMPH PEAS.—Quart, 30c. Peck, \$1.00. Bushel, \$4.00.

PHILADELPHIA EXTRA EARLY PEAS.—Qt., 30c. Pk., \$1.00. Bu., \$4.00.

PEDIGREE EXTRA EARLY.—Introduced several years ago, has steadily increased in favor until now the truckers all want it. Early as Alaska, large pods, white seeded, very prolific. All mature at one time and can be gathered in one picking. Pint, 15c. Quart, 30c. Peck, \$1.00. Bushel, \$4.00.

PROLIFIC EARLY MARKET PEAS

New. Recently introduced. The finest, largest and most prolific extra early variety. Larger than Alaska, nearly as early, quite as prolific. Handsome pods, which command the highest prices. Just the pea for the trucker, market gardener and family garden.

Price: Pint, 15c. Quart, 30c. Peck, \$1.00. Bushel, \$4.00.

LARGE PODDED EXTRA EARLY SUGAR VARIETIES

MARYLAND PRIDE PEAS.

Introduced by us last season for the first time, giving universal satisfaction to the market gardeners and shippers. Pods large, of a deep green color and nearly as early as Alaska.

Pint, 15c. Quart, 30c. Peck, \$1.50. Bushel, \$6.00.

THOMAS LAXTON.

Habit and growth same as **GRADUS**, but pods are a deeper green color, square at the ends, having fine flavor.

Pint, 15c. Qt., 30c. Peck, \$1.50. Bushel, \$6.00.

GRADUS, OR PROSPERITY—Pale Green Wrinkled.

The most attractive novelty of recent years. Large, handsome pods, well filled, ripening with the earliest and of vigorous habit.

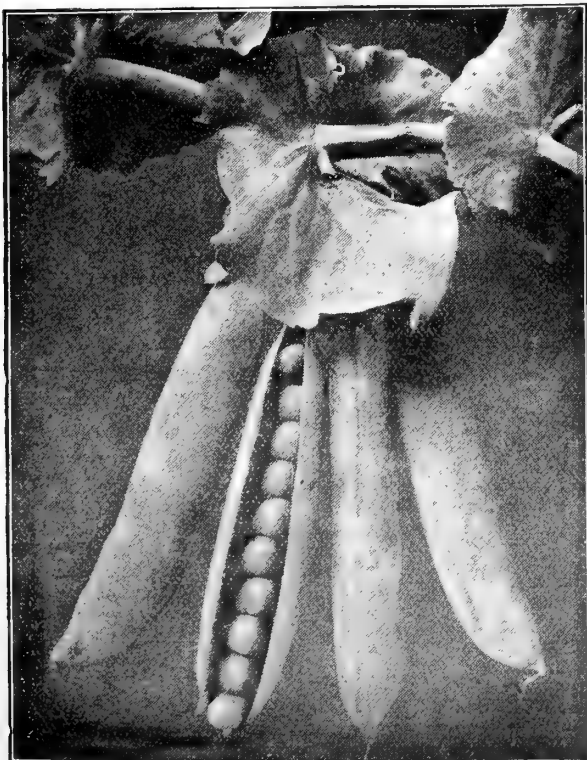
Pint, 15c. Quart, 30c. Peck, \$1.50. Bushel, \$6.00.

MARYLAND PRIDE PEAS.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



NOTT'S EXCELSIOR.



GARDENER'S FAVORITE.

PEAS==Continued **DWARF EXTRA EARLY VARIETIES**

NOTT'S EXCELSIOR

It is the best of dwarf wrinkled extra early of recent introduction. The vines are larger and more vigorous than the American Wonder, while the pods are fully one-third larger, containing 6 to 8 fine, large Peas, packed so closely together in the pods that the Peas are always more square than round. The pods are always well filled with Peas, which in sweetness and quality have no superior.

Pt., 15c. Qt., 30c. Peck, \$1.75. Bushel, \$6.00.

AMERICAN WONDER

Very luscious in flavor. Try it. Height, 12 inches. The earliest wrinkled Pea; very productive and sweet. Better suited to the private than to the market garden.

Pt., 15c. Qt., 30c. Peck, \$1.75. Bushel, \$6.00.

PREMIUM GEM

Height, 15 inches. An improvement upon the Little Gem. A splendid wrinkled dwarf Pea; very luscious in flavor.

Pt., 15c. Qt., 30c. Peck, \$1.75. Bushel, \$6.00.

McLEAN'S LITTLE GEM

Similar to Premium Gem, but more straggling in growth; pods not so well filled; height, 18 inches; seed, green, wrinkled.

Pt., 15c. Qt., 30c. Peck, \$1.75. Bushel, \$6.00.

BLUE PETER, OR BLUE TOM THUMB

One of the earliest and hardiest of the dwarf varieties; blue seed, dark green pods; large Peas of excellent quality; much superior to the White Tom Thumb.

Pt., —. Qt., —. Peck, —. Bus., —.

SECOND EARLY HALF DWARF WRINKLED VARIETIES

GARDENER'S FAVORITE.

Height, 30 to 36 inches. A wrinkled variety named and introduced by us, and which is constantly gaining friends; of most delicious flavor, prolific bearer, specially suited for the market garden trade. It is also attracting considerable attention with some of our leading canners, as when packed they find the quality to be superior to any other sort.

Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.75.

ADVANCER.

Height, 2½ feet. A green wrinkled variety; introduced some years ago, and has always given satisfaction.

Qt., 30c. Pk., \$1.25. Bus., \$4.75.

EVERBEARING.

Vines are about 2 feet high, of a branching character, forming as many as 10 stalks from a single root stalk. Peas large and of fine quality. Qt., 30c. Pk., \$1.50. Bus., \$5.00.

YORKSHIRE HERO.

Height, 2½ feet. A wrinkled variety; productive and of very superior flavor. Qt., 30c. Pk., \$1.50. Bus., \$5.00.

SHROPSHIRE HERO.

A grand new second early wrinkled Pea, producing long, handsome, well-filled pods in great abundance. Height, 2½ feet.

Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.00.

ABUNDANCE.

Height, 30 to 36 inches. An excellent half-dwarf, medium early, wrinkled variety; pods 3½ inches long, containing 6 to 8 large Peas of excellent quality. Qt., 30c. Pk., \$1.50. Bus., \$5.00.

PRIDE OF THE MARKET.

A medium early dwarf Pea of vigorous habit and very productive. The pods are large, of a medium green color, and contain 7 to 9 Peas of fine quality; 1½ feet high.

Pt., 15c. Qt., 30c. Pk., \$1.50. Bus., \$5.00.

HORSFORD'S MARKET GARDEN.

Height, 2½ feet. A medium early wrinkled variety; highly recommended. Qt., 30c. Pk., \$1.25. Bus., \$4.75.

IMPROVED STRATAGEM.

Height, 2½ feet. A large wrinkled blue Pea of excellent quality; very long, large filled pods. More regular in its growth than the ordinary Stratagem, and in every way superior.

Qt., 30c. Pk., \$1.25. Bus., \$5.00.

DWARF GREEN WRINKLED MARROW.

An excellent new wrinkled variety. Large pods and very productive. Qt., 30c. Pk., \$1.35. Bus., \$5.00.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

PEAS—CONTINUED

MEDIUM AND LATE VARIETIES

HEROINE PEA.—A medium early, green, wrinkled Pea, and one of the best of recent introduction; large, curved, showy pods; an immense cropper; Peas of finest quality. Height, 2 to 2½ feet. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$5.00.**

CHAMPION OF ENGLAND.—Height, 4 feet. An old favorite, rich flavored, and very productive. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$5.00.**

MELTING SUGAR (Edible Pods).—This variety is ahead of all other Sugar Peas, not only in size of pod and prolific bearing, but also for its delicious flavor. It grows to the height of 5 feet, bears a profusion of very large, broad handsome light green pods, which are so brittle that they snap without any strings. **Pt., 15c. Qt., 40c. Pk., \$2.25.**

TALL GRAY SUGAR (Edible Pods).—Cooked in the pods same as Snap beans. **Pt., 20c. Qt., 40c.**

DWARF GRAY SUGAR (Edible Pods).—Quite a favorite. **Pt., 20c. Qt., 40c. Pk., —.**

TELEPHONE.—Height, 3 to 4 feet. Large wrinkled seeds; pods large and well filled. **Pt., 15c. Qt., 30c. Pk., \$1.40. Bus., \$5.25.**

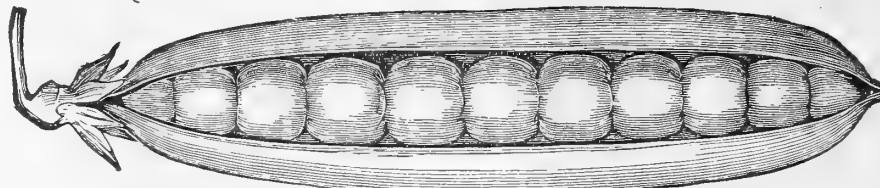
TELEGRAPH, or LONG ISLAND MAMMOTH.—Resembles the Telephone in every respect, except they are a deeper shade of green. Pods are very attractive in appearance. **Pt., 15c. Qt., 30c. Pk., \$1.40. Bus., \$5.00.**

IMPROVED SUGAR MARROWFAT PEAS (Genuine Stock).—Height, 3½ feet. Grows a strong vine, bears in abundance large, filled pods. The truckers' favorite. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

ADMIRAL DEWEY.—Here we have a most excellent Pea, with large, handsome pods; Peas of the highest quality. More dwarf than the Stratagem and about a week earlier in maturing, regular and uniform in growth; vines stocky, healthy and of vigorous growth; pods long, frequently containing 10 peas, of tender and delicious flavor. Don't fail to try it. **Pt., 15c. Qt., 30c. Pk., \$1.75. Bus., \$6.00.**

FRENCH CANNER.—Height, 3½ feet. The celebrated Pea used in France by the canners. It is wonderfully prolific, bearing an abundance of long pods, containing 7 to 9 peas of excellent flavor. **Pt., 15c. Qt., 30c. Pk., \$1.00. Bus., \$3.50.**

HEROINE PEAS.



IMPROVED SUGAR MARROWFAT PEAS.

HERBS

A well assorted selection of the various kinds of herbs should have a place in every garden. Their value in seasoning and flavoring is well known and appreciated. Sow in spring in shallow drills, one foot apart, and when well up thin out or transplant to a proper distance. Care should be taken to harvest on a dry day just before they fully blossom.

	Pkts.	Oz.	¼ lb.	Lb.		Pkts.	Oz.	¼ lb.	Lb.
ANISE	5c.	10c.	15c.	25c.	DILL	5c.	10c.	25c.	\$.70
BASIL	5c., 10c.	15c.	...	...	FENNEL (Sweet)	5c.	10c.	25c.	.....
BENE, use medicinally.....	5c.	15c.	...	...	LAVENDER	5c.	15c.	40c.	1.25
BORAGE, excellent for bees.....	5c.	15c.	40c.	\$1.25	MARJORAM	5c.	15c.	40c.	1.25
CARAWAY	5c.	10c.	25c.	.....	ROSEMARY, an aromatic herb....	5c.	35c.	50c.	1.75
CHERVIL	5c.	25c.	...	...	SAGE (American)	5c., 10c.	25c.	40c.	1.50
CHICKORY	5c.	10c.	25c.	1.00	SUMMER SAVORY	5c.	10c.	40c.	1.25
CORIANDER	5c.	10c.	25c.	1.00	THYME (broad-leaved English)...	5c., 10c.	25c.	75c.	.....

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

PEPPER OR CAPSICUM

Is cultivated mainly for pickles; used as a seasoning in many ways; sometimes medicinally. Sow seed early in hotbed, if possible; if not, select a warm place in the garden for seed bed; sow as soon as the soil is warm. Transplant when 3 or 4 inches high, in rows 18 inches apart.

LARGE BELL OR BULL NOSE.—Plant vigorous, compact, very productive, ripening its crop uniformly and early. Fruit large, with thick, mild flesh, of excellent quality for use in salads and pickles; color bright red when ripe. **Pkts., 5c. Oz., 30c. ¼ lb., 75c. Lb., \$2.50.**

RUBY KING.—An improved American variety often four to six inches in length and quite symmetrical in shape. It is very bright colored and the flesh is sweet and mild flavored. **Pkts., 5c. and 10c. Oz., 30c. ¼ lb., 75c. Lb., \$2.50.**

SWEET MOUNTAIN.—Plants very vigorous, of compact, upright growth. The fruit does not ripen until very late. It is very large and long, often eight inches or more in length by two in diameter; very smooth and handsome, being when fully mature of a rich red color. Flesh very thick, sweet and mildly flavored. **Pkts., 5c. and 10c. Oz., 30c. ¼ lb., 75c. Lb., \$2.50.**

CHINESE GIANT.—Double the size of Ruby King; the finest mild Red Pepper grown. It is very productive, having a magnificent appearance, which makes it sell readily. **Pkt., 10c. Oz., 30c. ¼ lb., \$1.00.**

LONG RED CAYENNE.—A well known variety, having a slender, twisted and pointed pod about four inches long, and when ripe, bright red in color. Extremely strong and pungent flesh. **Pkts., 5c. and 10c. Oz., 30c. ¼ lb., 75c.**

RED CHERRY.—Plant tall, bearing a profusion of round, bright red fruit which are very pungent when ripe. The plant, when in fruit, is very ornamental. **Pkts., 5c. and 10c. Oz., 40c.**

RED CHILL.—Used in the manufacture of pepper sauce. The bright, rich red pods are about two inches long, one-third to one-half inch in diameter at the base, tapering to a sharp point and exceedingly pungent when ripe. **Pkts., 5c. and 10c. Oz., 40c.**

PUMPKIN

Plant in May, in hills 8 feet apart. Allot 10 seed to each hill, as bugs often destroy the young plants, but only allow 2 or 3 healthy plants to remain in each hill. They are usually planted in fields with corn or potatoes.

G. & T. CO'S MARYLAND SWEET POTATO

This is the best table Pumpkin in cultivation. In shape and size it somewhat resembles the Cashaw, but much more beautiful in color, being a handsome green and white striped. The flesh is a rich yellow color, solid, fine grained, very thick; flavor delicious. **Pkt., 5c. Oz., 15c. ¼ lb., 20c. Lb., 75c.**

LARGE CHEESE, OR KENTUCKY FIELD.—A very large, flattened pumpkin, averaging about two feet through. When ripened the skin is a rich cream color. Flesh yellow and of fine quality. **Pkt., 5c. Oz., 10c. ¼ lb. 20c. Lb., 60c.**

TENNESSEE SWEET POTATO.—A splendid pie and cooking pumpkin. They grow pear-shaped, of medium size, slightly ribbed; skin is creamy white, lightly striped with green; flesh very thick, creamy white, dry and fine-grained, keeping well until late in the spring. When cooked resembles sweet potatoes, but much more delicious in taste. **Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.**

CONNECTICUT FIELD

A fine, large, orange-colored variety used for field culture and stock feeding. The skin is smooth and ribbed and the flesh is brittle and sweet. **Pint, 10c. Quart, 20c. Lb., 25c.**

YELLOW CASHAW, OR CROOKNECK.—Solid flesh, fine and sweet; keeps well. **Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.**

SALSIFY OR VEGETABLE OYSTER

Sow in early spring in light, rich soil in drills 14 inches apart and thin the plants to six inches in the row. The roots will be ready for use in October and will sustain no injury by being left in the ground during the winter.

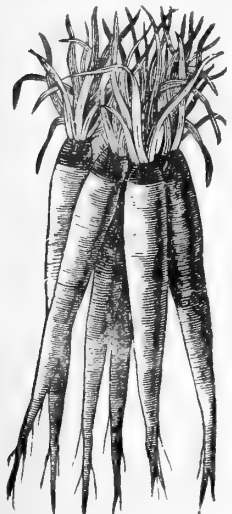
SANDWICH ISLAND MAMMOTH.—This new Salsify grows fully twice the size of the old sort, and is superior in quality. Invaluable to market gardeners. **Pkt., 5c. Oz., 10c. ¼ lb., 50c. Lb., \$1.50.**

LARGE WHITE.—The old well-known variety. **Pkts., 5c. and 10c. ¼ lb., 50c. Lb., \$1.50.**

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G. & T. CO'S
MARYLAND SWEET POTATO.



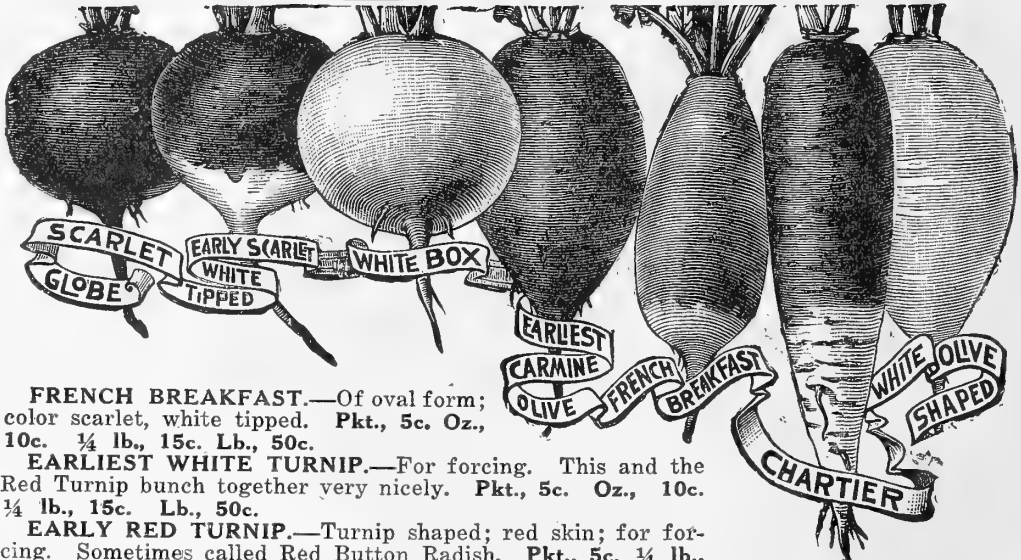
SALSIFY.

RADISH

ONE OUNCE
WILL SOW
100 FEET
OF DRILL

For an early supply sow in hotbed in February. For a successive supply sow from middle of March to September. Radishes thrive best in light, rich, sandy loam. The radish must make a rapid growth to be fit for use; it will then be crisp and tender and of a mild flavor. If it grows slowly, it will be hard, fibrous and disagreeably pungent.

EARLY SCARLET, OR PRUSSIAN GLOBE RADISH.—This is the very best forcing variety; is sown largely by market gardeners and truckers, and they are delighted with it. It is of a globular shape and brilliant, beautiful crimson color, short top, and will stand a large amount of heat without becoming pithy. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 20c. Lb., 50c.



FRENCH BREAKFAST.—Of oval form; color scarlet, white tipped. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. Lb., 50c.

EARLIEST WHITE TURNIP.—For forcing. This and the Red Turnip bunch together very nicely. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. Lb., 50c.

EARLY RED TURNIP.—Turnip shaped; red skin; for forcing. Sometimes called Red Button Radish. Pkt., 5c. $\frac{1}{4}$ lb., 15c. Lb., 40c.

SCARLET OLIVE-SHAPED RADISH.—A showy half-long variety of pretty shape and bunches beautifully. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. Lb., 40c.

WHITE BOX.—Perfectly round, smooth skin, pure white, free from any sharpness or bitterness. A remarkably quick grower, with small top. For forcing, it is in every way superior. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c.

EARLY WHITE TIPPED SCARLET.—An excellent variety for forcing, with very short leaves; bright scarlet in color, with a white tip. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. Lb., 40c. 5 lbs., \$2.00.



White
Strasburg
Radish.

SUMMER VARIETIES

WHITE STRASBURG.—This is becoming one of the most popular summer sorts; it is of handsome tapering shape, skin pure white; very tender. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c.

GIANT STUTTGART.—A splendid new variety, of excellent quality; withstands summer heat. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 60c.

CHARTIER.—A good variety for private or market garden purposes. Stands long before going to seed, and is tender and crisp. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. Lb., 40c.

DELICACY.—Resembles White Strasburg, being more evenly shaped and smaller topped; grows into full size and perfection during the hottest months. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. Lb., 40c.

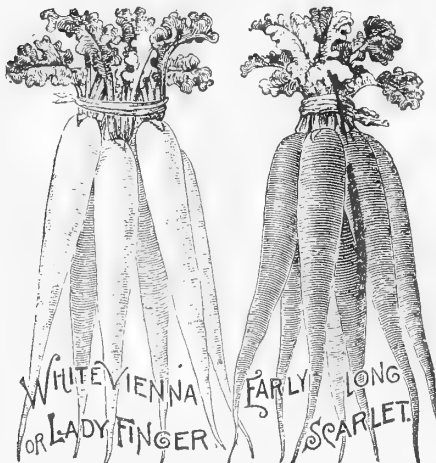
GOLDEN GLOBE.—An excellent summer Radish; slow to run to seed; shape globular, bright yellow color and mild flavor. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c.

LONG VARIETIES

CININNATI MARKET NEW GLASS RADISH. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. Lb., 45c.

WHITE VIENNA, OR LADY FINGER.—This is unquestionably the finest long white Radish. Of most handsome shape, color a beautiful snow white. It is of very rapid growth, and remarkably crisp, brittle and tender; equally desirable for the market or home garden. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c.

LONG SCARLET (Finest Grown).—Very attractive and sells readily. Owing to its handsome shape, brilliant color and fine qualities, it commands a higher price and more ready sale than the ordinary Long Scarlet as generally sold. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. Lb., 40c.



RADISH--CONTINUED

WINTER VARIETIES

WHITE CHINESE WINTER, OR CELESTIAL—This excellent variety is sold also as Chinese White Winter. The roots are long, cylindrical, with beautiful white skin and flesh, the whitest and usually the least pungent of the winter varieties. When fully mature the roots are six to nine inches long by about two and one-half to three and one-half inches in diameter. The flesh is compact and crisp. **Pkt., 5c.; Oz., 10c. ¼ Lb., 25c. Lb., 75c.**

CHINESE ROSE WINTER—Remarkably fine for winter use. The best of the winter sorts. **Pkt., 5c. Oz., 10c. ¼ Lb., 15c. Lb., 40c.**

LONG BLACK SPANISH—A large winter variety; one of the hardest, with dark green leaves, firm in texture, keeping until spring. **Pkt., 5c. Oz., 10c. ¼ Lb., 20c. Lb., 50c.**

LONG WHITE SPANISH (Winter)—Fine keeping quality. **Pkt., 5c. Oz., 10c. ¼ Lb., 15c. Lb., 50c.**

ROUND WHITE SPANISH—A good fall or winter variety. **Pkt., 5c. Oz., 10c. ¼ Lb., 15c. Lb., 50c.**

ROUND BLACK SPANISH—A fine globe-shaped Radish; very popular with the Germans, known as Rettig; good quality. **Pkt., 5c. Oz., 10c. ¼ Lb., 15c. Lb., 50c.**

RHUBARB OR PIE PLANT

ONE OUNCE OF SEED TO 125 FEET OF DRILL.

CULTURE—Good plants are easily grown in any good garden soil. Sow seed thinly in shallow drills a foot apart, thin to 4 or 5 inches. Keep soil loose and free from weeds. The plants are liable to vary considerably. Pick out the strongest and best. In fall or spring following, transplant to the permanent bed, 4 feet apart each way, in deep, warm and very rich soil. The more manure the better stalks. For winter forcing take up two-year roots in fall, leave out to freeze, then bed close together on cellar bottom or under greenhouse bench in the dark. **Pkts., 5c. and 10c. Oz., 15c. ¼ Lb., 40c. Lb., \$1.25.**

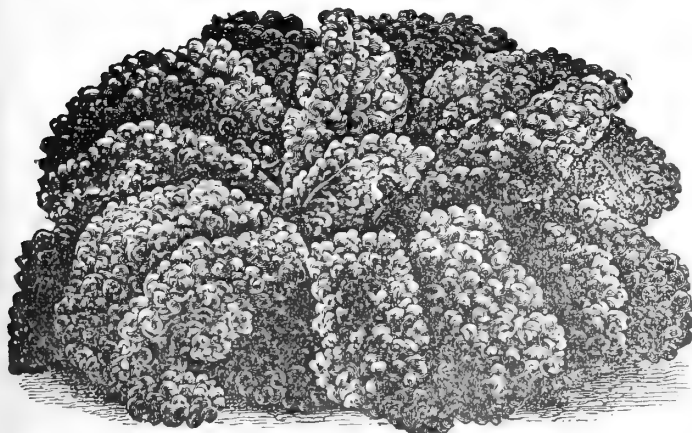
RHUBARB ROOTS

15c. each. Doz., \$1.50.

Chinese Winter Radish.

Long Black Spanish Radish.

SPINACH



Bloomsdale—Savoy Spinach.

This is quite an important crop with market gardeners, and one easily managed. For summer use, sow early in spring, in drills eight inches to one foot apart, covering the seed one inch deep. Select rich soil and manure liberally. A succession may be obtained by sowing at intervals of two weeks through the season. For very early spring use sow in August, and protect the plants through the winter by a thick covering of clean straw or some other similar light covering. Spinach is used principally as greens for boiling, and is very highly esteemed for this purpose.

BLOOMSDALE SAVOY—The variety most generally used in the East and especially throughout the South for shipping. Leaves large, round and thick, very much savoyed and rich deep green. One of the earliest varieties. Seed round. **Pkt., 5c.; ¼ Lb., 15c.; Lb., 40c.**

G. & T. CO'S EXTRA CURLED AMERICAN-GROWN BLOOMSDALE SAVOY SPINACH—This is grown especially for us, and is without exception the best type of Savoy Spinach in existence. It is beautifully curled and wrinkled, the leaves large, thick and heavy, produced in great numbers, and stands handling and transportation better than any other sort; in fact, we hardly think we could say too much about this valuable acquisition to the spinach family. Sold only in sealed bags. **Pkt., 5c. ¼ Lb., 15c. Lb., 50c.**

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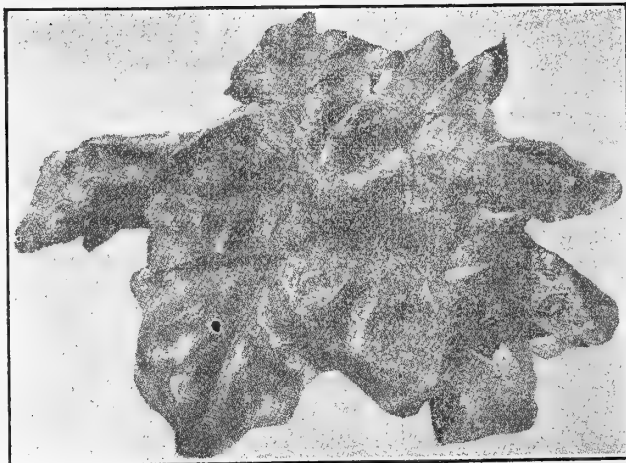
SPINACH--CONTINUED

LONG STANDING—Best for spring sowing, as it is very slow to seed. The leaves are large, round, unusually thick, curled and of dark green color. Pkt., 5c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

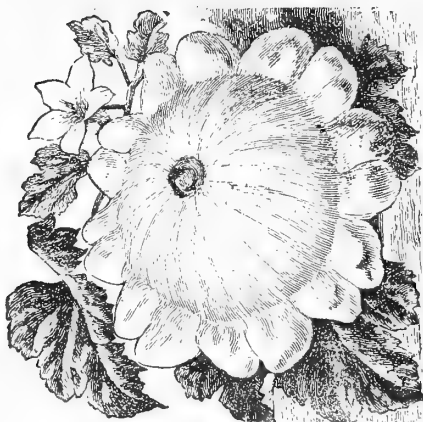
LARGE ROUND-LEAVED VIROFLAY—A new sort, with very large, thick leaves. Pkt., 5c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

VICTORIA SPINACH—This new spinach comes to us with the highest recommendations from the growers. The foliage is heavy, the broad, dark green leaves being of the true Savoy appearance and of the finest quality; but the most remarkable feature that will make it of special value, both for market and family gardens, is, the fact that it is in prime condition from two weeks to three weeks after all other varieties of spinach have run to seed. Pkt., 5c. $\frac{1}{4}$ Lb., 15c. Lb., 40c.

WRITE FOR SPECIAL PRICES IN QUANTITIES.



Long Standing Spinach.



Early White Bush Scallop.

SQUASH

The Squashes are all quite tender, and therefore no progress can be made in starting them until the weather becomes somewhat warm and settled. Plant in hills five feet apart each way for the bush varieties, and eight feet for the running varieties; put eight seeds to the hill, but don't allow over three to stand.

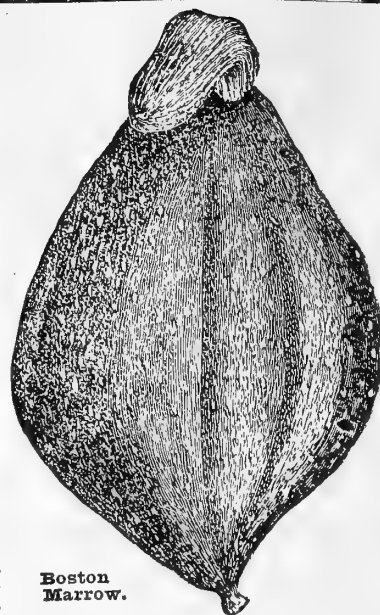
EARLY WHITE BUSH SCALLOP—A desirable and marketable sort. Best known and most productive of all the summer sorts. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 25c. Lb., 75c.

SUMMER CROOK NECK (Early)—Fine flavor; a desirable table sort. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 20c. Lb., 60c.

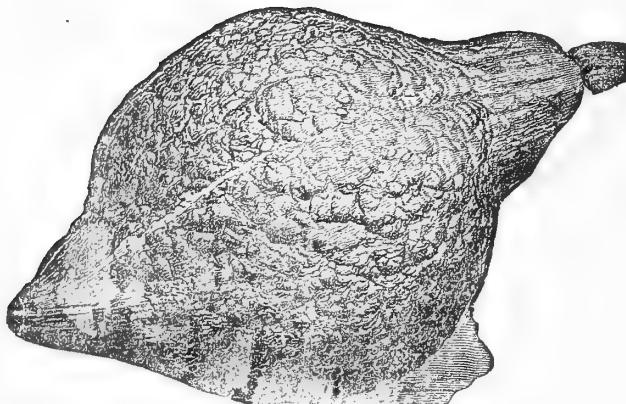
WINTER CROOK NECK—Flesh red, fine flavor; largely grown for winter use. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 20c. Lb., 60c.

HUBBARD—The most popular winter squash. Fruit is oblong and pointed, heavily warted, dark green in color, with orange-colored flesh. Is remarkable for its keeping qualities.

Pkt., 5c.; Oz., 10c.; $\frac{1}{4}$ Lb., 20c. Lb., 75c.



Boston Marrow.



Hubbard.

BOSTON MARROW—A popular variety, with large, oval fruit. Skin bright reddish orange with light cream netting. Flesh orange. Fine grained and of excellent quality. This is the most popular variety for canning. The fruit makes a rich orange-red, and delicious flavored dish.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 20c. Lb., 60c.



Summer Crook Neck.

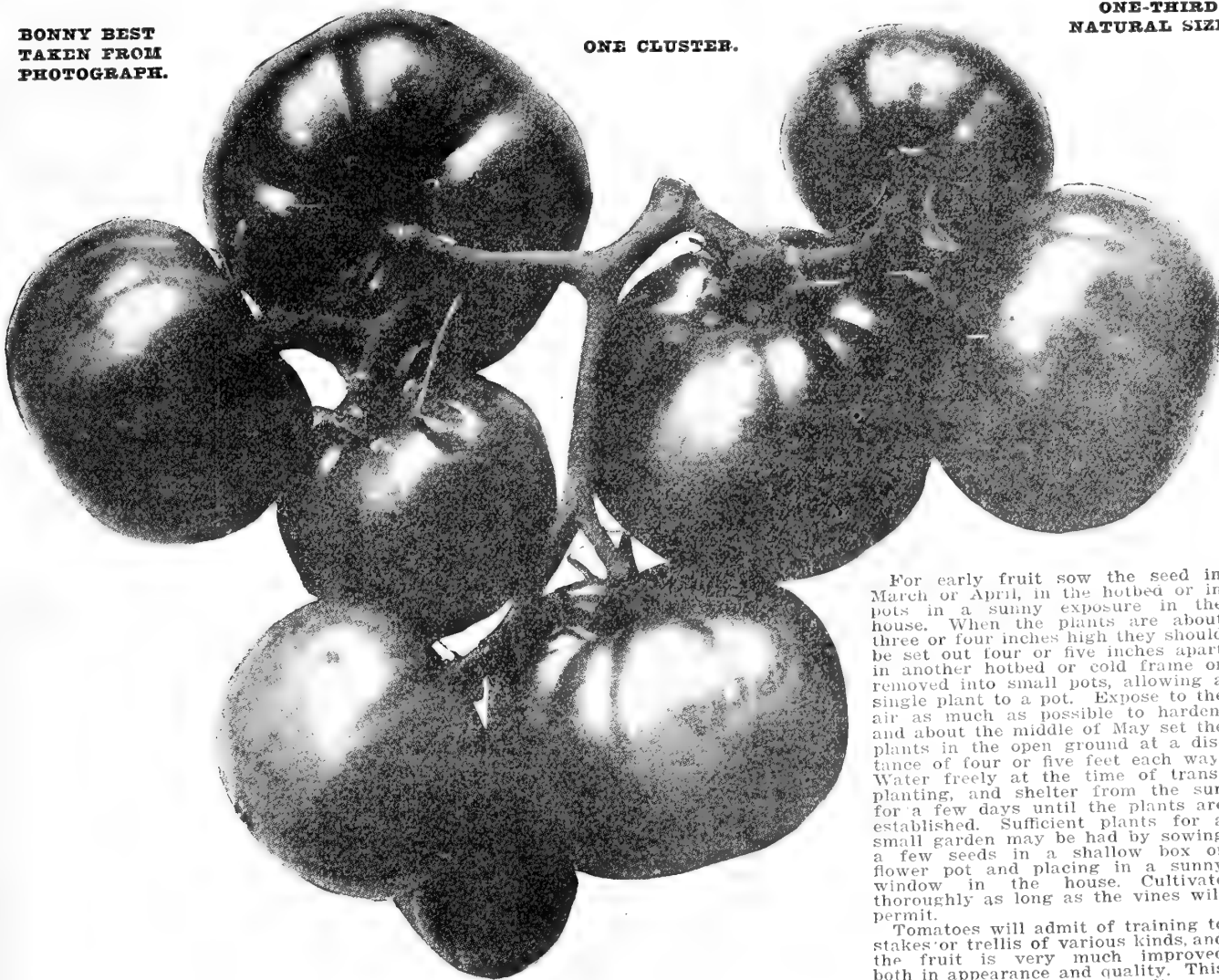
ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

TOMATO

BONNY BEST
TAKEN FROM
PHOTOGRAPH.

ONE CLUSTER.

ONE-THIRD
NATURAL SIZE.



For early fruit sow the seed in March or April, in the hotbed or in pots in a sunny exposure in the house. When the plants are about three or four inches high they should be set out four or five inches apart in another hotbed or cold frame or removed into small pots, allowing a single plant to a pot. Expose to the air as much as possible to harden, and about the middle of May set the plants in the open ground at a distance of four or five feet each way. Water freely at the time of transplanting, and shelter from the sun for a few days until the plants are established. Sufficient plants for a small garden may be had by sowing a few seeds in a shallow box or flower pot and placing in a sunny window in the house. Cultivate thoroughly as long as the vines will permit.

Tomatoes will admit of training to stakes or trellis of various kinds, and the fruit is very much improved both in appearance and quality. This mode of cultivation is now quite common among gardeners who grow for

early market. The usual method is to set one strong plant to a stake, using stakes five to seven feet in height, tying the plant up with wool or other strong, soft twine, pruning out quite freely as the vines advance in growth. By adopting this method the plants may be set much closer than in the ordinary way.

BONNY BEST EARLY TOMATO-New.

As its name signifies, it is the best extra early tomato yet introduced. Is fully ten days earlier than Chalk's Early Jewel, and within a day or two, if not quite as early as Spark's Earliana. Truckers who tested it claim it is as early as Earliana.

It is a vigorous grower, very prolific, with dense foliage, which protects the fruits from hot sun when other varieties like the Earliana have scalded fruits. The fruit is even size, smooth, round, red, of delicious flavor, ripening to stem.

It does not have the green surface like the Earliana and other extra early varieties. Pkts., 5c. and 10c. Oz., 35c. ¼ lb., \$1.00. Lb., \$3.50.

EARLY I. X. L. TOMATO.—Earliest, largest, most prolific. Pkt., 10c. ½ oz., 15c. Oz., 25c. ¼ lb., 60c. ½ lb., \$1.00. Lb., \$2.00.

ATLANTIC PRIZE (Select Stock).—An excellent extra early red Tomato, and while it does not run as regularly smooth as the Paragon, it ripens very evenly.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

CHALK'S EARLY JEWEL.—Deep-fruited and solid. The growth is very compact. Fruit of uniformly good size; very solid; brightest scarlet, ripening up to the stem without cracks or green core; sweet flavor.

Pkts., 5c. and 10c. Oz., 30c. ¼ lb., 90c. Lb., \$3.00.

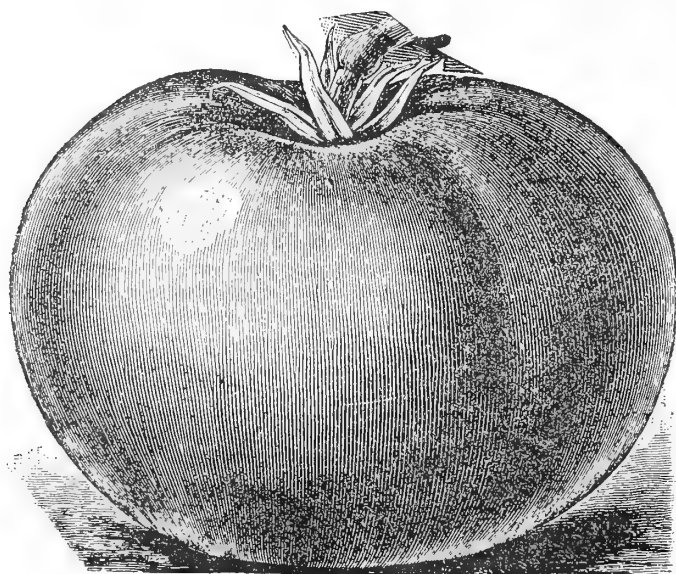
MAULE'S EARLIEST.—New; very fine; extra early; very prolific; fruits large size; excellent for shipping.

Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 75c.

NEW SUCCESS.—A magnificent new scarlet fruited Tomato of finest quality, handsome appearance, large size and great productiveness.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

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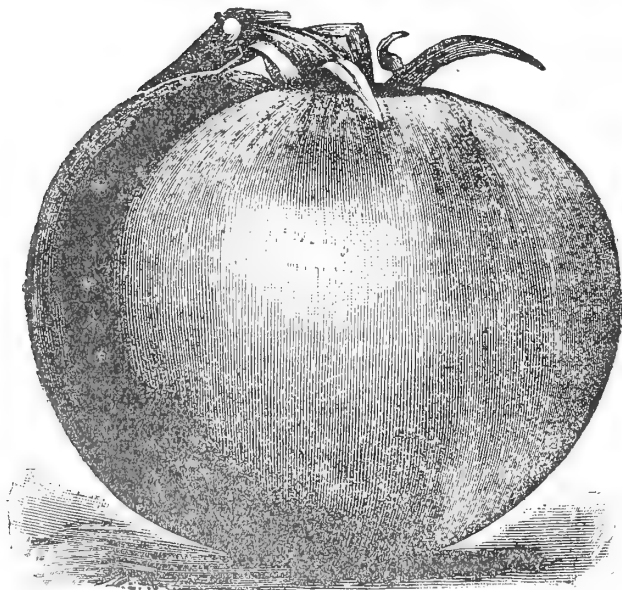
**EXTRA EARLY RUBY**

While not as early as the Sparks' Earliana by a week or ten days, it is far superior in quality, size, shape, flavor and productiveness. In color, ruby red, nearly globe-shaped; solid flesh throughout, and with very few seeds and free from acidity; it makes a splendid main crop variety; a great keeper and shipper. Pkt., 10c. Oz., 35c. $\frac{1}{4}$ Lb., \$1.00. Lb., \$3.50.

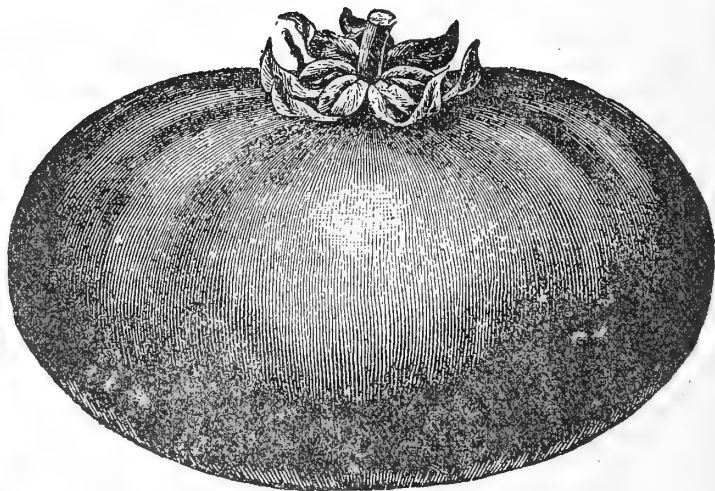
TOMATO**SPARKS' EARLIANA**

SPARKS' EARLIANA—The earliest bright red Tomato; very large, smooth color, bright red; solid and excellent for slicing. The plants are of moderate growth, well set with fruits, nearly all of which ripen extremely early in the season. Grows in clusters; of medium size; smooth, solid, solid center, small seed cells, slightly acid.

Pkts, 5c. and 10c. Oz., 25c. $\frac{1}{4}$ Lb., 60c. Lb., \$2.00.

MAIN CROP VARIETIES**RED ROCK**

One of the finest for canning, being extraordinarily solid, smooth and red. No other variety has any better qualities than the Red Rock. Of fine flavor, very meaty and wonderfully free from acid. A heavy producer and good shipper. We think it is the coming Tomato for main crop and canners' use. Pkts., 5c. and 10c. Oz., 25c. $\frac{1}{4}$ Lb., 60c. Lb., \$2.00.

**Griffith & Turner Co.'s World's Fair**

The great canner. The six great points of this great canner—solidity, symmetry, handsome, bright red, ripens uniform, free from rot. Its shipping and keeping qualities are unexcelled.

The planters now demand this great Tomato, notwithstanding the fact that there are many much-newer varieties. Yet it has been so successful that it is preferred above all others. The fruit is particularly solid and of fine flavor, good size, smooth, and certainly very attractive.

Pkts., 5c. and 10c. Oz., 20c. $\frac{1}{4}$ Lb., 60c. Lb., \$2.00.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

TOMATO



THE NEW STONE TOMATO.—Ripens for main crop; is very large and of bright scarlet color; very smooth, with occasionally a specimen very slightly octagon-shaped, ripening evenly to the stem without a crack; exceedingly solid and firm-fleshed (as its name indicates). It is an excellent shipper; fine for canning; a good keeper; not subject to rot.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

"GREATER BALTIMORE" TOMATO.—Makes a fine crop. Pkts., 10c. ½ oz., 15c. Oz., 25c. 2 oz., 40c. ¼ lb., 60c. Lb., \$2.00.

LIVINGSTON'S FAVORITE.—Bright red, smooth Tomato of good size.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

PARAGON.—Well-known standard bright red Tomato.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

ROYAL RED.—New; resembles Favorite in form and color; good main crop variety.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

NEW QUEEN TOMATOES.—Fruit somewhat resembles Paragon in appearance. This sort is well known and a favorite among canners, but it is not as deep red in color nor as weighty and solid as our World's Fair.

Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 50c. Lb., \$1.75.

EXTRA EARLY PURPLE VARIETIES

BEAUTY.—For early market and shipping this cannot be excelled, because of its solidity and toughness of skin. Color is a rich, glossy crimson, with a slight tinge of purple. It is well known and very largely used by our gardeners.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.

DWARF CHAMPION.—Dwarf, upright growth; smooth purple fruit.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 75c. Lb., \$2.50.

PRIZETAKER.—Early; large; handsome; deep crimson; slight tinge of purple.

Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 60c. Lb., \$2.00.

MEDIUM EARLY VARIETIES

PRIZEWINNER.—Purple; early; prince of market Tomatoes; color resembles Beauty, but larger; solid; one of the best keepers and shippers; smooth; well adapted for late crop.

Pkt., 10c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.

PONDEROSA.—Remarkable for size; fruits heavy; deep red; flesh thick, solid and fine quality.

Pkt., 10c. Oz., 30c. ¼ lb., \$1.00.

ACME.—Purple; early; medium; pink-purplish; slightly oval.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$2.00.

CRIMSON CUSHION.—Resembles Ponderosa in shape and size; color deep red. Pkt., 10c. Oz., 35c. ¼ lb., 75c.

BUCKEYE STATE.—Purple; productive, but not very solid; large, smooth.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

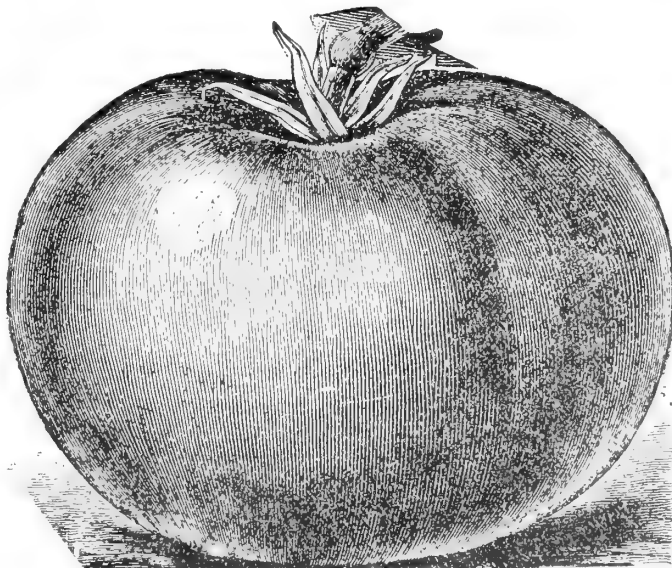
LORILLARD.—Best for greenhouse forcing; bright, glossy red; very smooth. Pkt., 10c.

SMALL FRUITED VARIETIES

PEAR-SHAPED RED.—Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 75c.

PEAR-SHAPED YELLOW.—Used for preserves and pickles. Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 75c.

YELLOW PLUM.—Color bright yellow; excellent for preserving. Pkt., 5c. Oz., 25c. ¼ lb., 75c.



MATCHLESS.—The color is rich red. The skin is so tough that it makes a splendid keeper and shipper, and is less liable to crack in wet weather than any other large Tomato. Unsuited for market or table; strong grower and very productive, bearing with undiminished vigor until frost. The fruit is free from core and the seed spaces comparatively small.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

BRINTON'S BEST.—One of the leading sorts for second early and late use; the fruit is large, handsome and a splendid keeper. A great favorite with canners and truckers.

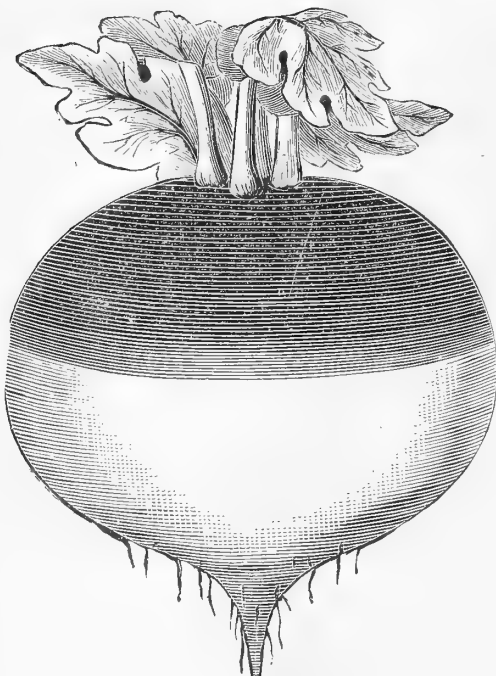
Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

KELLY RED TOMATO.—This splendid Red Tomato originated in Anne Arundel County, Md., and through its superior qualities it has become the Tomato most largely used in that section. It is large, meaty, an abundant yielder, and withstands unfavorable conditions remarkably well.

Pkts., 5c. and 10c. ½ Oz., 15c. Oz., 25c. ¼ lb., 75c. Lb., \$2.50.

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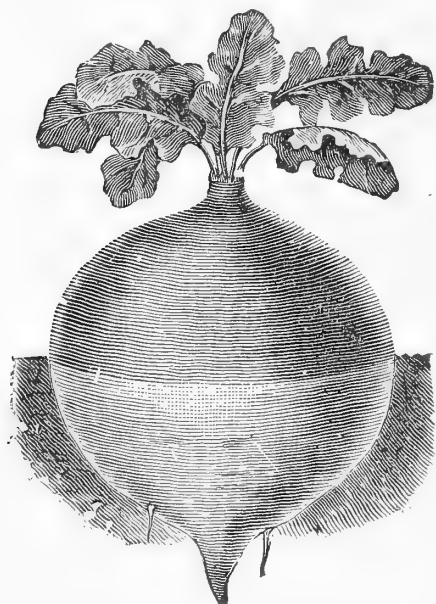
TURNIP



Improved Purple or Red Top Globe Turnip.

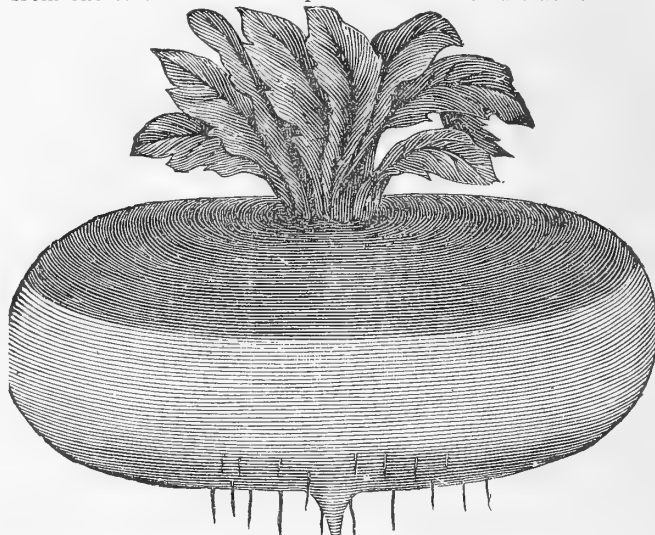
This excellent table variety is globular in shape, of good size and very attractive appearance. The roots are large, purple or dark red above ground, white below. The flesh is white, fine grained and tender. The roots when in best condition for the table are about three inches in diameter, but can be grown much larger for stock feeding. This sort keeps well for so early a variety, and is one of the best for market use. It is also known as Red Top White Globe.

Pkt., 5c. $\frac{1}{4}$ Lb., 15c. $\frac{1}{2}$ Lb., 20c. Lb., 35c.



G. & T. Co.'s Improved Purple Top Rutabaga.

For early use, sow the small sorts as soon as the ground can be worked in the spring, in drills 14 inches apart, the Rutabagas 30 inches. As the seed is very fine, it should be covered but slightly, excepting in very dry weather. Select light, and if possible, new soil and manure with plaster and ashes or phosphates. Should the young plants be troubled with insects, a sprinkling of slug shot will be beneficial. For fall and winter use the early kinds should be sown, from the middle of July to the middle of August, and the Rutabagas from the middle of June to the first of July, using from one to one and a half pounds of seed to the acre.



Red or Purple Top Flat Strap-Leaved Turnip.

A very early strap-leaved variety, very extensively used for the table. The leaves are few, entire, upright in growth. The roots are flat, of medium size, purple or dark red above ground, white below. The flesh is white, fine grained and tender. Roots when in best condition for table use are about two and one-half inches in diameter, but can be grown much larger for stock feeding. This sort is also known as Early Red Top, Strap-Leaved. Pkt., 5c. $\frac{1}{4}$ Lb., 15c. $\frac{1}{2}$ Lb., 20c. Lb., 35c.

YELLOW AERDEEN, or SCOTCH YELLOW—This is a highly approved Cattle Turnip, attaining a large size. It is solid, nutritious, a good keeper, and in every respect reliable.

Pkt., 5c. $\frac{1}{4}$ Lb., 10c. $\frac{1}{2}$ Lb., 15c. Lb., 30c.

LARGE AMBER, or YELLOW GLOBE—Grows to a large size; flesh yellow, firm and fine-grained. Excellent for either table use or feeding stock. Pkt., 5c. $\frac{1}{4}$ Lb., 10c. $\frac{1}{2}$ Lb., 15c. Lb., 30c.

SEVEN TOP—For greens and salads. Used largely in the Southern States. Pkt., 5c. $\frac{1}{4}$ Lb., 10c. $\frac{1}{2}$ Lb., 20c. Lb., 35c.

EXTRA EARLY PURPLE TOP MILAN—The earliest and handsomest Flat Turnip in cultivation; none equal to it for spring sowing. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. $\frac{1}{2}$ Lb., 25c. Lb., 50c.

WHITE FLAT (Strap Leaf)—Differs from Red Top only in color. Pkt., 5c. $\frac{1}{4}$ Lb., 10c. $\frac{1}{2}$ Lb., 15c. Lb., 30c.

EARLY WHITE EGG—A new variety of rapid growth; egg-shaped and white, as its name indicates. Pkt., 5c. Oz., 10c. $\frac{1}{4}$ Lb., 15c. $\frac{1}{2}$ Lb., 25c. Lb., 50c.

COW HORN (Large Croppers)—This variety is pure white, excepting a dash of green at the crown, and in shape is long, like the carrot. Oz., 5c. $\frac{1}{4}$ Lb., 15c. $\frac{1}{2}$ Lb., 20c. Lb., 40c.

SOUTHERN PRIZE—True strain of the favorite Turnip for greens in Virginia and the Carolinas. Valued also for its bulk. Oz., 5c. $\frac{1}{4}$ Lb., 15c. Lb., 30c.

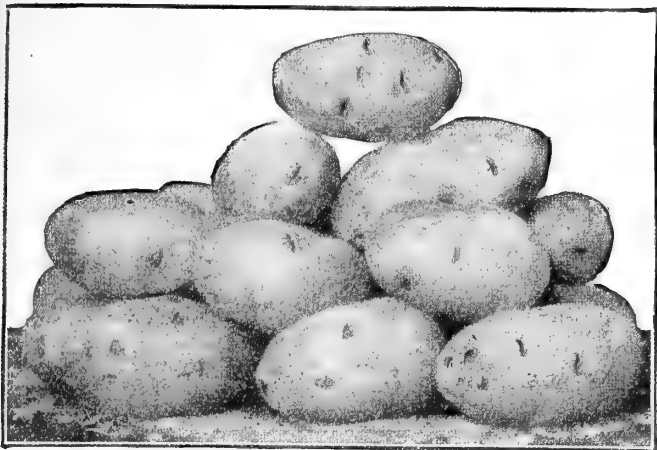
RUTABAGAS OR SWEDES

The Swede Turnips, or Rutabagas, grow much larger in size, and are of greater value for stock feeding than ordinary turnips. Every farmer and stock-raiser should grow Rutabagas and Stock Beets for winter feeding.

GRIFFITH & TURNER CO.'S IMPROVED PURPLE TOP—Yellow-fleshed. A standard field variety for stock and fine for family use. This splendid Swede is the hardiest, most productive and most nutritious variety in cultivation. Pkt., 5c. $\frac{1}{4}$ Lb., 10c. Lb., 30c.

PURPLE TOP RUTABAGAS—An old standard sort of good quality. Pkt., 5c. $\frac{1}{4}$ Lb., 10c. $\frac{1}{2}$ Lb., 15c. Lb., 30c.

G. & T. CO.'S WHITE ROCK—Though sometimes called a turnip, this is more like a rutabaga. The root is large, both skin and flesh very white, and is one of the best varieties we have for table use. An excellent keeper and a desirable sort for market gardeners. Pkt., 5c. $\frac{1}{4}$ Lb., 10c. $\frac{1}{2}$ Lb., 20c. Lb., 40c.



Extra Early Prize Potatoes.

G. & T. CO.'S EXTRA EARLY PRIZE.—This potato is in all respects a very superior early sort. It proved to be early and productive; also found its eating qualities first class. We consider it the best early Potato on the market today.

Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.75.

WHITE BLISS TRIUMPH, or PRIDE OF THE SOUTH.—Extra early round white; identical with the Red Bliss, only different in color. A very fine variety for early market or family garden.

Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.75.

RED BLISS TRIUMPH.—This beautiful variety combines the wonderful productiveness of the Peerless with all the good qualities of the Early Rose; is much more productive and matures its crop at least a week in advance of the Early Rose.

Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.75.

EARLY OHIO.—This is very early and productive, of fine quality and an excellent keeper.

Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.50.

MAINE, or HOULTON EARLY ROSE.—The Early Rose led the list for over 30 years, and is today one of the best early market Potatoes. Our stock of this is grown on new land, near Houlton, Maine; is rugged and pure, and produces as good crops as those which made the Early Rose famous in its early years. Remember, that this stock is not to be confounded with the old run-out Rose grown in other sections.

Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.50.

EARLY NORTHER.—This superb Potato originated at Caribou, Maine. It resembles the Early Rose in shape and color, matures earlier than the Rose, and is much more productive. Under our own observation the past season it yielded more than the Rose, matured earlier, and was in all respects superior. Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.50.

NEW YORK EARLY ROSE.—A leading variety for earliness, quality and productiveness.

Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.50.

EARLY BOVEE.—One of the earliest varieties; good size, very smooth; uniform, perfect shape; eyes shallow; light skin and white flesh. Cooks dry and floury; of superb quality; a great yielder and healthy grower.

Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.75.

CROWN JEWEL.—Very early and prolific; skin pinkish white. One of the best for early market. It is planted very largely in this vicinity and the South.

Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.75.

BEAUTY OF HEBRON.—Very rapid and vigorous grower, ripening as early as Early Rose, which it resembles, but frequently exceeds in productiveness and excellence for table use, either baked or boiled.

Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.75.

EARLY PURITAN.—A distinct and early variety; both skin and flesh white; quality superb, dry and floury; immense cropper. Fine for market gardeners.

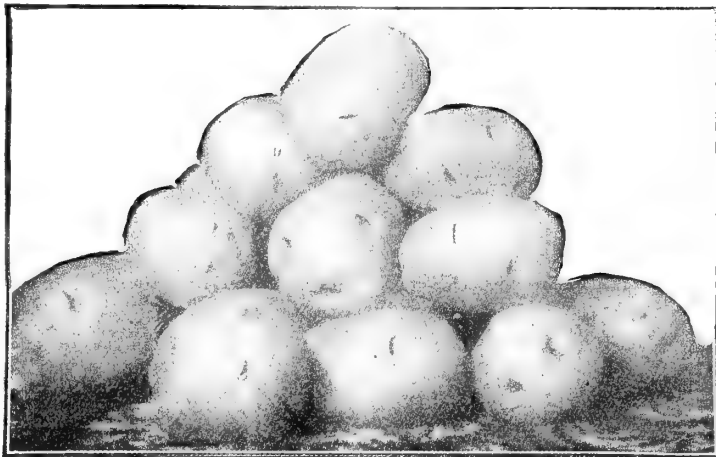
Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.75.

EARLY HARVEST.—This beautiful new early Potato is a heavy yielder for an early variety; good size, nearly white. A good one for the market garden.

Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.75.

POTATOES MAINE OR NORTHERN GROWN

The soil best suited to the Potato is a rich, sandy loam; but it seems to thrive in almost any soil or climate. The Potato being a gross feeder requires a liberal application of manure. If stable manure is to be used it should be well rotted, and not allowed to come in contact with the tubers. On no other crop are the results from the use of phosphates so manifest as on the Potato. Almost invariably the tubers are smoother, brighter and freer from rust and the destructive influence of wire worms. **GRIFFITH & TURNER CO.'S PLANT FOOD** is especially adapted for Potatoes, as it promotes growth and at the same time prevents disease. Plant as early in the spring as the ground can be thoroughly worked in rows three feet apart and one foot in the rows, covering in light, warm soil about four inches, and in cold, wet ground three inches deep; draw the earth to the plants as they advance in growth. The soil should be constantly stirred through the season to prevent the surface from baking.



Irish Cobbler Potatoes.

IRISH COBBLER (A New Sort).—Very productive, matures early; shape chunky, eyes strong and deeply set, skin netted, flesh white, quality very superior. After years' experience we find that it is a very superior variety. Don't fail to get it.

Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.50.

G. & T. CO.'S BOUNTIFUL.—The finest middle crop variety yet introduced. Before putting it on the market we have given it a thorough test, and are convinced of its superior qualities. A heavy cropper, yielding large, smooth, handsome tubers.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$4.00.

PROSPERITY.—A middle-crop variety, one of the handsomest large Potatoes ever produced. The yield is immense, and even under unfavorable circumstances can be relied on; flesh very white; cooks dry and mealy.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$4.00.

RURAL NEW YORKER, No. 2.—A valuable variety of large size, very smooth and a great cropper; in quality unexcelled. This variety is yearly becoming more popular as the best late long keeper, and we recommend it highly.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$4.00.

BURBANK.—This is an old and reliable variety, and is a No. 1 for a late, large-yielding, good-keeping Potato, and for table use, after January 1, is one of the best.

Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.50.

NEW QUEEN.—A grand Potato of recent introduction, closely resembling Beauty of Hebron in appearance, color, size and shape, but is 7 to 10 days earlier and a heavy yielder. Our seed of this variety comes from Maine, where it originated, and is pure and true to name.

Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.75.

GREEN MOUNTAIN.—A fine late sort.

Peck, 50c. Bushel, \$1.50. Barrel Sack, \$4.00.

SWEET POTATOES

CHOICE JERSEY SWEETS AT MARKET PRICES DURING SEASON. WRITE FOR QUOTATIONS.

ASK FOR PRICE IN LARGE QUANTITIES.

Yellow Field Corn

CHESTNUT GROVE YELLOW CORN—This corn was grown on Chestnut Grove Farm, Baltimore county, and the average yield from the whole crop was 20 1-16 barrels to the acre. The ears are large, deep, medium-sized grain, and of beautiful color. **Qt., 15c. Peck, 75c. Bus., \$2.50. 10-bus. lots, \$2.25 bus.**

G. & T. CO.'S MAMMOTH YELLOW CORN—The largest, most prolific yellow corn in existence; the ears attain an average length from 12 to 15 inches, and make a crop in 110 to 120 days, growing medium-sized, fodder very deep grain. **Qt., 15c. Peck, 75c. Bus., \$2.50. 10-bus. lots, \$2.25 bus.**

NEW MARYLAND YELLOW DENT—The grains are unusually deep, ears large, stalks grow from 7 to 10 feet high, does not exhaust soil so much, and will stand drought better than a large stalk, and will yield 5 to 10 bushels per acre more than any other corn generally planted. **Qt., 15c. Peck, 75c. Bus., \$2.50. 10-bus. lots, \$2.25 bus.**

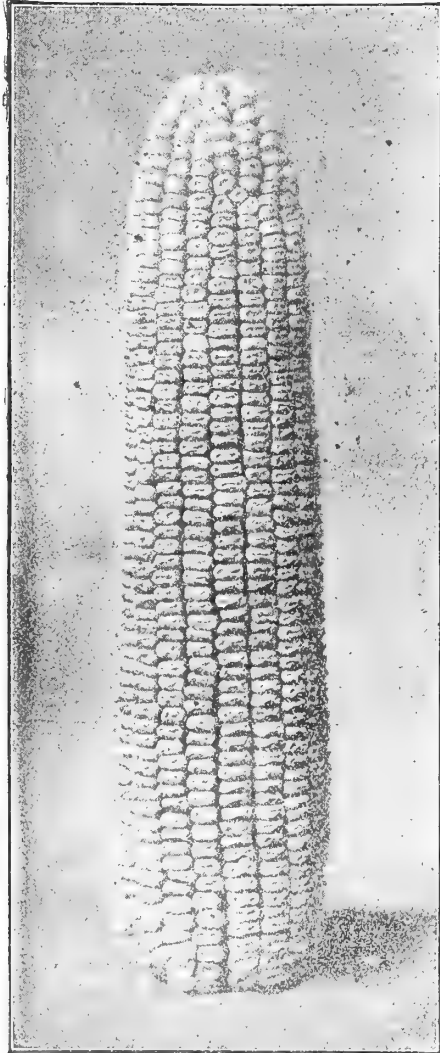
IMPROVED EARLY LEAMING—Bred and tested for 10 years. Pedigree stock. An early selected variety of yellow corn; small grain, weighty and productive. Highly esteemed in Maryland and Pennsylvania. One of the earliest varieties of yellow corn in cultivation. **Qt., 15c. Peck, 75c. Bus., \$2.50. 10-bus. lots, \$2.25 bus.**

G. & T. CO.'S IMPROVED GOLD-EN BEAUTY—A large, broad-grained yellow corn, with ears of perfect shape and small cob. The richness of color and the quality of grain make it a very superior variety. **Qt., 15c. Peck, 75c. Bus., \$2.50. 10-bus. lots, \$2.25 bus.**

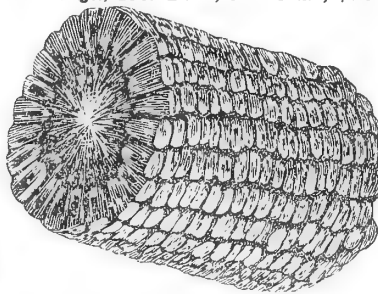
90-DAY YELLOW—This is an excellent quick-growing variety. May be planted after peas are taken off, and make a good crop. Largely used by truckers around Baltimore. **Qt., 15c. Peck, 75c. Bus., \$2.50. 10-bus. lots, \$2.25 bus.**

REID'S YELLOW DENT CORN—Matures in 100 to 105 days. Has a rich yellow color, very solid heavy ears from 8 to 12 inches long, with 16 to 18 rows of grain. The grains are deep on a small red cob. Fodder from 7 to 8½ feet high, and produces a great many stalks with two ears. A fine early corn. **Qts., 15c. Peck, 75c. Bus., \$2.50.**

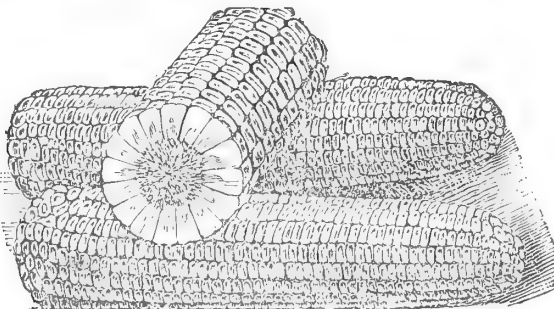
MAMMOTH YELLOW ENSILAGE CORN—Especially adapted for ensilage, as it grows large fodder and blades; preferred by many to the white. **Qt., 15c. Peck, 75c. Bus., \$2.50.**



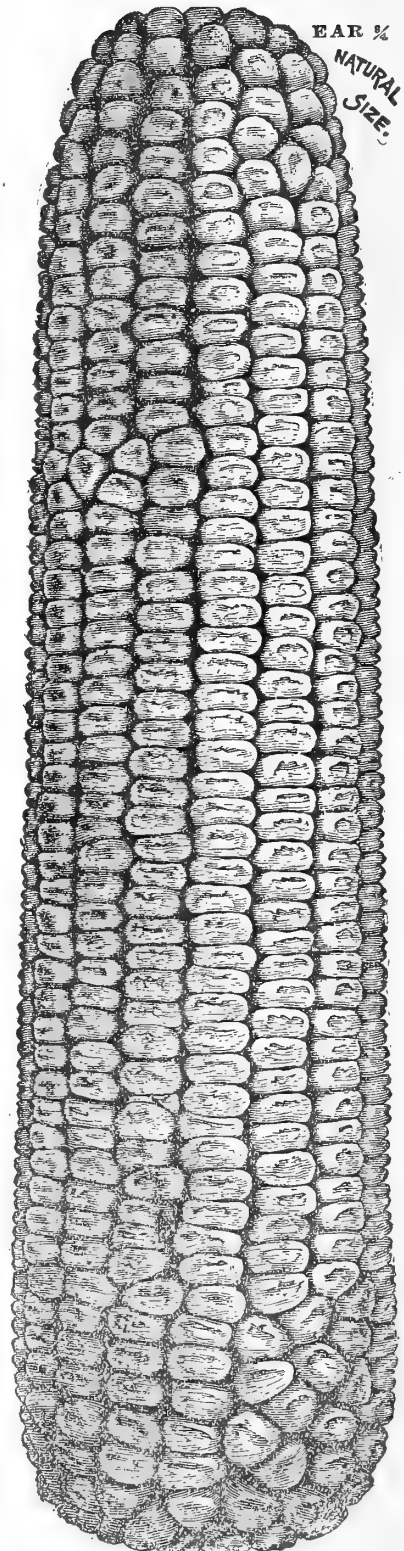
Maryland Yellow Dent Corn.



Improved Yellow Leaming.



Golden Beauty (Yellow).



GRIFFITH & TURNER CO.'S CHESTNUT GROVE YELLOW CORN

White Field Corn

G. & T. CO.'S IMPROVED MARYLAND WHITE DENT CORN.—After years of careful selection we have secured this improved White Field Corn; grows good-sized ears and makes splendid meal. Produces better crops on average land than most any other variety. **Qt., 15c. Peck, 75c. Bus., \$2.50.**

BOONE COUNTY WHITE.—We believe this to be the best all around White Corn in existence. It is a heavy yielder; has large ears, deep grain, small cob and produces good-sized fodder, free from barren stalks. Matures in 110 to 115 days. **Price: Qt., 15c. Peck, 75c. Bus., \$2.50. 10 bus. lots, \$2.25 bus.**

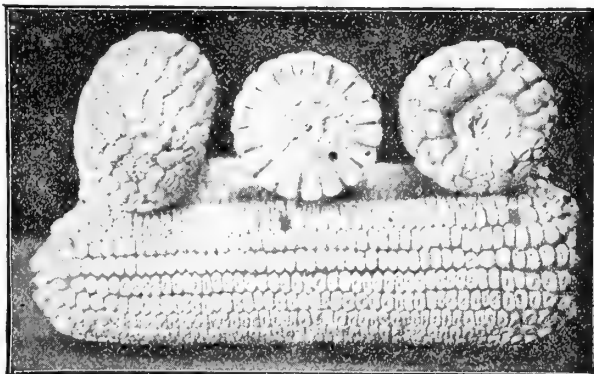
'SOUTHERN SNOWFLAKE.—A well-known and very popular corn through the South. Suitable for meal or feeding purposes; the best white corn for poor land. **Qt., 15c. Peck, 75c. Bus., \$2.50.**

90-DAY CORN (White with Red Cob).—This is an elegant corn for truckers and market gardeners, as it is as good a seller as green corn. Is suitable for either early or late crop. **Qt., 15c. Peck, 75c. Bus., \$2.50.**

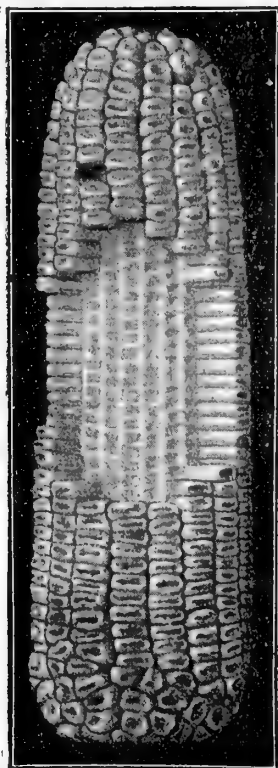
HICKORY KING WHITE CORN.—Produces very large, broad, flat, white dent grains, which are closely placed on a very slender cob. **Qt., 15c. Peck, 75c. Bus., \$2.50.**

WHITE ENSILAGE CORN.—Specially adapted for ensilage. **Bus., \$2.50.**

POP CORN POPPERS.—15c. each.



• Maryland White Dent Corn.



Boone County White Corn.

SEED OATS

IMPROVED WHITE TARTAR.

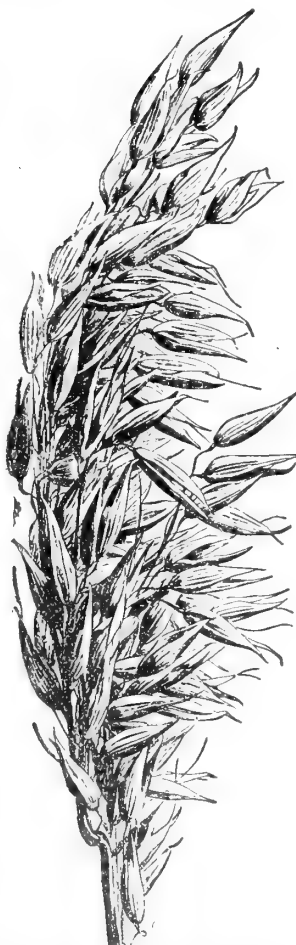
The most remarkable Oats now under cultivation. Our customers say they will sow no others. These grand Oats outyield all others. The very best for all-round purposes. Greatest yielding variety in existence and rust-proof. Succeeds well on all soils. Straw is of golden yellow color, while the grains are white, with a slight golden cast. Withstands stormy weather. A measured bushel weighs from 36 to 42 lbs. Would highly recommend these Oats to all our customers. Change your seed this season. **Bushel of 32 lbs., \$1.15.**

WHITE SEED OATS

For spring sowing. 32 pounds to the bushel. Extra heavy fancy White Oats. Ask for prices.

WINTER TURF OATS

Perfectly hardy in the Southern and Middle States, standing the winter nearly as well as wheat. Yields, on good land, from 50 to 70 bushels to the acre, of fine, heavy grain weighing from 30 to 40 pounds to the measured bushel. Furnishes excellent fall, winter and early spring grazing, without injury to the grain crop. Write for prices first of August.



SEED WHEAT AND RYE

We can offer choice stocks of Seed Wheat and Rye, re-cleaned, and at reasonable prices. Write us August 1 for special prices for fall sowing.

SEED BUCKWHEAT

JAPANESE.—The best sort. The plants are large and vigorous, maturing their seed early and resisting drought and blight remarkably well, while the grain is much larger and at the same time has a thinner hull than the common or the Silver Hull. Owing to its branching character, only one-half the seed is required per acre, while the straw is much stiffer and stands up better. We recommend this especially for well-drained or sandy land and the dry climate of the Western plains. **Peck, 40c. Bushel, \$1.50.**

SILVER HULL.—Same price as above.

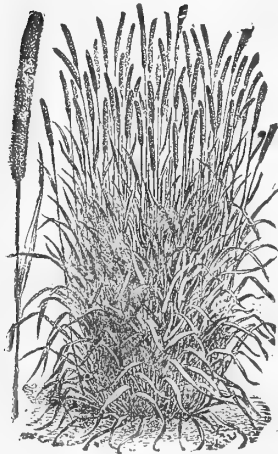
BARLEY

ARLINGTON BEARDESS FALL BARLEY. A new Barley introduced by the U. S. Department of Agriculture. This Barley has many advantages over other fall grain crops, making it useful for early grazing and hay crops. It matures nearly a month earlier than wheat, provided sown in September, and makes a growth almost as tall as fall wheat, growing 8 to 10 inches taller than ordinary winter Barley. It yields as high as 60 bushels per acre and is nearly free from beards. **Price, \$2.00 bus.**

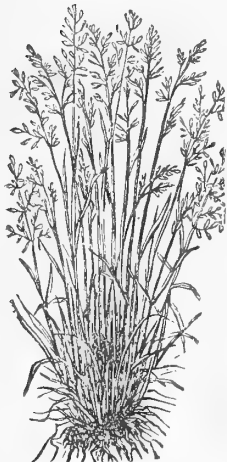
BEARDED FALL BARLEY.—A heavy yielder, much better than spring sown. Sow in September for best results.

WRITE FOR PRICES ON FIELD SEEDS IN QUANTITY.

HIGH-GRADE GRASS SEEDS



TIMOTHY.



RED TOP GRASS.

TIMOTHY (Phleum pratense.)

This makes one of the most popular, nutritious and salable of hay grasses. It is best adapted for sowing on clay or heavy loams, low lands or in mountainous districts, although it will do well on any good stiff loamy soils, provided moisture is abundant. It does not succeed nearly as well, however, as Orchard, Tall Meadow Oat or Herd's Grass on soils of a sandy or light loamy texture, and is not of as much value for pasturage as other grasses. The stand of Timothy will also be injured if grazed or cut too closely. The yield of hay on good ground is from one and a half to three tons per acre. The best clover to sow with timothy is either the Sapling or Alsike, as they mature and ripen with timothy. **Found, 10c. Peck, \$1.15. Bushel of 45 lbs., \$1.25.**

RED TOP, OR HERD'S GRASS (Agrostis vulgaris).

—This grass makes excellent pasturage and good crop of fine quality hay, and succeeds on a greater variety of soils than any other grass in general use, giving very good results on light soils and the very best results on heavier, moist or low ground soils. It is rather late in starting in the spring and matures its crop at the same time as Timothy. Is excellently adapted for seeding with Timothy for hay, and furnishes excellent pasturage afterwards. When it gets well established it will gradually supplant other grasses. The grades of seed usually sold are:

CHAFF RED TOP.—Seed in chaff. Sow 4 to 6 bushels to the acre, 10 lbs. to bushel. **Price, 50c. bus.**

UNHULLED RED TOP.—Seed in hull, but free of chaff and impurities. Sow 2 to 3 bushels to the acre; 14 lbs. to the bushel. **Price, 1b., 15c.; bus., \$1.60; 100 lbs., 11c. lb.**

FANCY CLEANED RED TOP.—Hulled seed, free from all impurities. We would advise our customers to sow the Extra Cleaned Unhulled or Fancy Cleaned seed.

Fancy Cleaned Red Top.—Sow 12 to 15 lbs. to the acre. **Price, 20c. lb.; \$20.00 per 100 lbs.; bushel of 32 lbs., \$6.40.**

RHODE ISLAND BENT GRASS (Agrotis canina).—A very fine variety for lawns. **Lb., 45c.**

SHEEP FESCUE (Festuca ovina).—It is a densely tufted perennial grass for dry, sandy and rocky soil where scarcely any other species will grow. It roots deeply, and forms a dense, short tuft, suitable for lawns and pleasure grounds where the soil is sandy. It affords wholesome food for all cattle, especially sheep. Specially recommended for pasturage mixtures. Sow about 30 pounds per acre. **Lb., 30c. Bushel of 12 lbs., \$3.00.**

ITALIAN RYE GRASS.—Is an annual, and should be sown every year at the rate of 50 pounds per acre. It can be sown during August, September or October. It should be mown as early as the blossoms appear, or the hay will not be so good, and it can be cut every month from early spring if the soil and weather are suitable. **Bus., 20 lb. Lb., 15c. 10 lbs., 90c. Per 100 lbs., \$9.00.**

ENGLISH RYE GRASS (Lolium perenne).—This makes a quick growth very early in the spring, and is adapted for cool, moist locations. **24 lbs. to the bushel; 60 lbs. to the acre. Lb., 15c. Bus., \$2.25.**

CRESTED DOG'S TAIL (Cynosurus cristatus).—Should enter in moderate quantity in permanent pasture mixtures, and in larger quantities for lawns, as it possesses in a marked degree all the desirable features of a good lawn grass. **21 lbs. to bushel. Lb., 40c. 10 lbs., \$3.50.**

WOOD MEADOW (Poa nemoralis).—An early nutritive grass; thrives better under trees than other grasses. Is also an excellent pasture grass. **Lb., 45c. 10 lbs., \$4.00. 14 lbs. to bushel.**

SWEET VERNAL (Anthoxanthum odoratum).—True perennial; emits an agreeable odor, which it imparts to the hay. **Lb., 90c.**

KENTUCKY BLUE GRASS.—It is rather sensitive to heat, but not so to cold weather, and on this account does its best in the fall, winter and spring. It grows slowly at first, forms a very compact turf, making a fine pasturage when once established. It is much the best, however, to combine other grasses with it for either lawn or pasturage. Sow in the spring or fall. **Fancy, triple-cleaned. Per lb., 20c. Bus. of 14 lbs., \$2.25.**

ORCHARD GRASS (Dactylis glomerata).—One of the best and most reliable grasses for the Middle and Southern States, either for hay or pasturage. It succeeds well on nearly all soils, but does best on upland, loamy or moderately stiff soils. It starts early in the spring and continues well into winter. It is of quick growth and relished by stock, especially when young, and bears close grazing. It makes excellent hay, and gives the very best results mixed and grown with Tall Meadow Oat Grass and Red Clover, as suggested under the head of Tall Meadow Oat Grass. It should be cut when in blossom, as the hay is injured if the seed is allowed to ripen. It can be sown in the spring or fall either with grain or alone. Sow 3 bushels per acre if sown alone, or with Red Clover, one and one-half bushels of Orchard and seven pounds of Clover are the quantities usually sown. **Price, 25c. lb. Bus. of 14 lbs., \$3.00.**

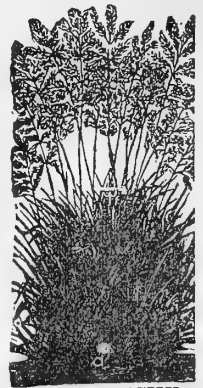
TALL MEADOW OAT GRASS (Avena elatior).—Most valuable for pastures on account of its early and luxuriant growth; it produces an abundant supply of foliage, which is relished by cattle, early and late. For hay it may be cut twice a year, and for green soiling it may be cut four or five times in favorable seasons. It is very hardy and withstands extreme drought and heat and cold. Height, 2 to 4 feet. 50 pounds to the acre. (10 pounds to bushel.) **Lb., 30c. 100 lbs., \$25.00.**

CREeping BENT GRASS (Agrotis stolonifera).—Excellent for lawns; succeeds well in all conditions; makes a low, velvety growth. **Lb., 50c. Bus. (20 lbs.), \$7.50.**

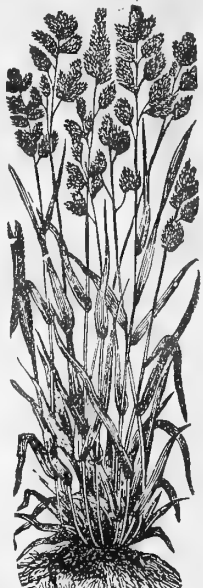
MEADOW FOXTAIL (Alopecurus pratensis).—Closely resembles Timothy in growth, but has a soft, feathery head. It is a valuable pasture grass by reason of its rapid growth. About 7 pounds to the bushel; 3 bushels to the acre. **Lb., 50c. Bushel, \$3.00.**

MEADOW FESCUE, RANDALL, or ENGLISH BLUE GRASS (Festuca pratensis).—This should be very much more largely used than at present. It makes a very good hay and pasturage grass, and is particularly valuable for fall and winter pasturage, as it remains green throughout the winter. It is very popular in Southwest Virginia, East Tennessee and the Mountainous districts of North Carolina, where it is very highly appreciated as a large-yielding, nutritious pasturage and hay grass. It succeeds well in nearly all sections of the South, and should be very largely used in pasturage and hay mixtures, being specially suitable for sowing with Red Top and Timothy for hay, or with these and Orchard and Tall Meadow Oat for permanent pasturage. Sow either in the spring or fall at the rate of 50 pounds to the acre. Thrives better under trees than other grasses. **22 lbs. to bus. Lb., 20c. 100 lbs., \$15.00.**

AWNLESS BROME GRASS (Bromus inermis).—Comparatively a new grass in this country, but in Hungary (Europe), its principal home, it is the chief meadow grass of the sandy poorlands. It grows coarse, resembling Orchard Grass; prefers light, dry soil. It roots deeply, and stands protracted droughts well, and will thrive upon soils too poor and dry to grow anything else but broom sedges; hence is valuable for such situations, both for grazing and hay, and especially in mixtures with other grasses. It has, however, been talked up very much in the agricultural press, especially in the West, and is worthy of extended trial. Sow at the rate of from 35 to 40 pounds per acre when sown by itself, either in the spring or fall. **Lb., 20c. Bushel of 14 lbs., \$3.00.**

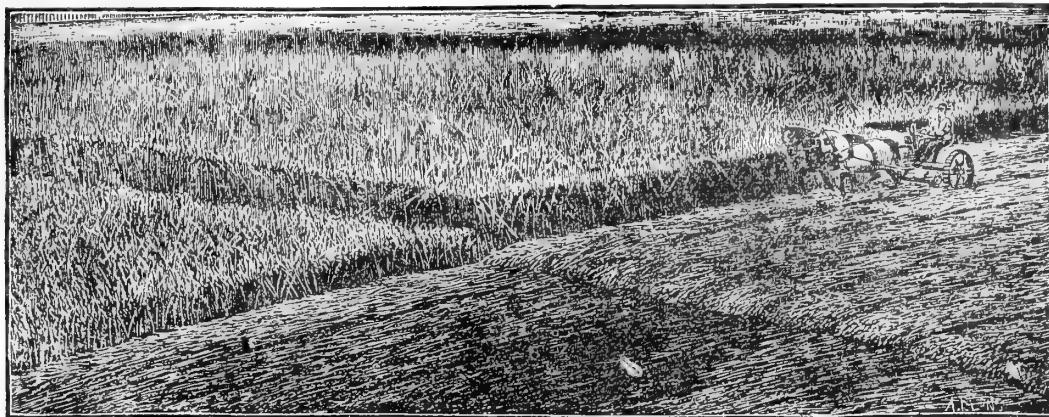


KENTUCKY BLUE GRASS.



ORCHARD GRASS.

GRASS MIXTURE FOR HAY AND PERMANENT PASTURES



Prepared especially to meet the demand for a mixture that will be desirable for cutting for Hay or to use for Pasture, and contains such grasses as are best adapted for these purposes. In ordering, please state whether you want a mixture for upland or low ground.

MIXTURE FOR UPLAND.—14 lbs. to the bushel, 3 bushels to the acre. Per bushel, \$2.50; 10 bushels for \$23.50.

MIXTURE FOR LOWLAND.—14 lbs. to the bushel, 3 bushels to the acre. Per bushel, \$2.50; 10 bushels for \$23.50.

GRASS AND CLOVER SEED MIXTURES, FOR MOWING FOR HAY, BUT CAN BE GRAZED

We have in the following mixtures combined grasses suitable for the various soils for which they are recommended. They are composed of grasses which will give an even growth for mowing for hay. We have also combined them so as to give a splendid pasture from early spring until late fall if desired.

The different mixtures are prepared from seeds of the finest quality, and only those are used best adapted to the soils and situation for which they are intended.

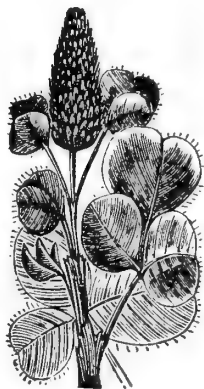
MIXTURE No. 1.—For Moist Bottom Lands. Sow 25 lbs. to the acre. Price, Lb., 16c. 10 lbs. and over, 15c. per lb.

MIXTURE No. 2.—For Light, Dry, Gravelly or Sandy Soils. Sow 35 lbs. to the acre. Price, Lb., 18c. 10 lbs. and over, 17c. per lb.

CLOVERS



ALSIKE CLOVER.



CRIMSON CLOVER.



WHITE CLOVER.



RED CLOVER.



LUCERNE OR ALFALFA CLOVER.

RECLEANED RED CLOVER.—We take great pains to supply an extra quality of Red Clover at a reasonable price. Farmers should not sow a poor quality of Clover Seed. We have, however, cheaper grades for those who wish them. 25c. lb.

Ask for prices in large quantities.

ALSIKE OR SWEDISH CLOVER.—Hardest of all the Clovers, and on rich, moist soils yields an enormous quantity of hay or pasturage. Valuable for sowing with other Clovers or grasses, as it forms a thick bottom and increases the yield of hay. Sow, either fall or spring, 6 pounds per acre when used alone. Lb., 25c.

Ask for prices in quantity.

WHITE DUTCH CLOVER.—Thrives most everywhere. The best to sow with lawn grass and valuable to sow with blue grass for permanent pastures. ¼ lb., 15c. ½ lb., 30c. 1 lb., 60c. By mail, lb., 65c. 10 lbs. by express, not prepaid, \$6.00.

WRITE FOR SPECIAL PRICES ON ABOVE.

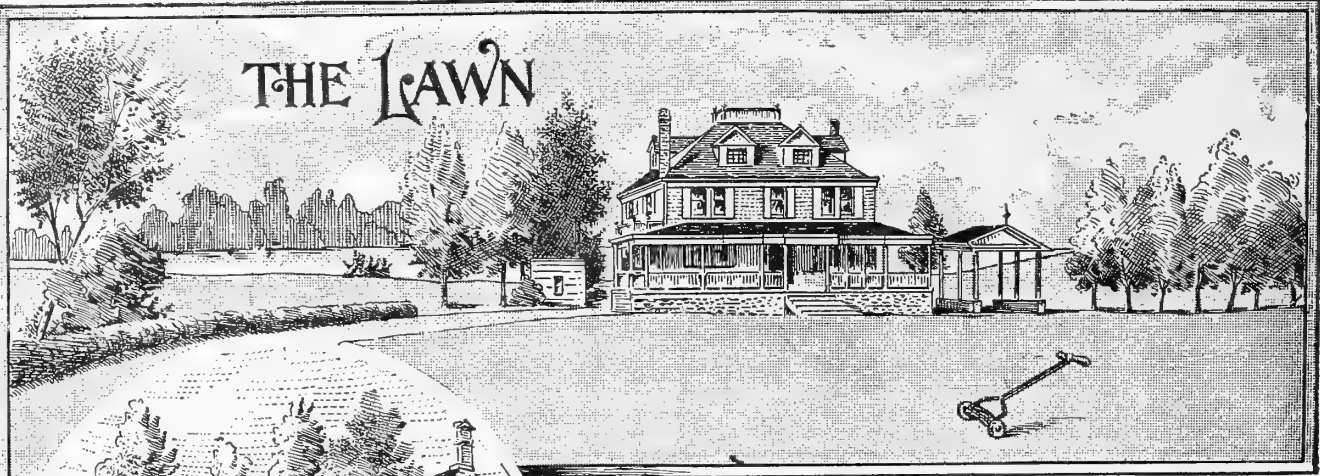
LUCERNE OR ALFALFA CLOVER.—One of the most valuable among Clovers, resisting drought and remaining green when other sorts are dried up. Sow on rich, moist loam or sandy soil. Prepare the land thoroughly and sow, either fall or spring, 20 pounds to the acre. Lb., 25c.

Special prices in large quantities on application.

CRIMSON CLOVER (The Great Nitrogen Gatherer).—The best crop for hay, silage and green manuring—all winter and spring pasturage. For hay it must be cut before it comes into full bloom, as otherwise it may cause hair-balls to form in the animal's stomach. It is used on poor and rich land. It is seeded in this country in June, July, August, September and October, and will produce an enormous crop early in the following spring, suitable either for consumption as green food or for hay. 15 to 20 pounds should be sown to the acre, according to the quality of the ground. 15c. per lb. Write for prices in quantity.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Lawn Grass Seed



PREPARATION AND CARE OF LAWNS

THE ground should be thoroughly drained and well enriched before sowing. Work the soil until well pulverized, and have the surface as smooth as possible, so that the grass may present an even appearance. After sowing, cover seed lightly and follow with roller. The best results are obtained by using plenty of seed, four bushels to the acre being about the right quantity. One quart is sufficient for 300 square feet. Let the grass obtain a good start before cutting, and then it should be trimmed with a lawn mower about every ten days. Old lawns may be improved and renewed by the application of fertilizers and seeding about half the quantity of seed required for new lawns. This should be done whenever they show any thin places.

GRIFFITH & TURNER CO'S EVERGREEN LAWN GRASS

This is a first-class mixture prepared by ourselves, and containing nothing but choice seeds—just the thing for tennis, croquet and ball grounds, remaining green and fresh during the hot summer months. Widely known and extensively used on the finest private and public grounds around Baltimore, Washington and elsewhere with the most satisfactory results. Nothing adds to the attractiveness of suburban homes more than a well-kept, closely-cut, velvety lawn; hence the importance of securing the best seeds. This we offer

in our selected Evergreen Lawn Mixture, containing different varieties that grow and flourish at different months of the year, so that a rich, green, velvety lawn is constantly maintained. It is adapted to the small grass plots of city homes. **Pint, 10c. Quart, 20c.; by mail, 25c. 1/2-Peck, 65c. Peck, \$1.10. Bushel of 20 pounds, \$4.00. By freight or express not prepaid.**

PARK LAWN GRASS

This mixture does not contain so much of the high-priced grasses as our Evergreen Lawn Grass, but it is superior to many of the cheap grades offered, and will make a very nice lawn. **Qt., 20c. Peck, \$1.00. Bushel of 16 lbs., \$3.00.**

GRIFFITH & TURNER CO'S GOLF LINK MIXTURE

There being a growing demand for a grass mixture suitable for golf and cricket grounds, we have made a study of the grasses best adapted to these purposes, and have them mixed in proper proportions to give desired results. Many of the public and private grounds around Baltimore and other places have been sown with our mixtures, and the grounds have won the admiration of thousands of visitors. It is highly essential that golf and cricket grounds should be mowed closer than ordinary lawns. 14 pounds to bushel. **Bushel, \$4.00. 10 bushel lots, \$3.75 bushel.**

SHADY NOOK GRASS

On nearly all lawns there are bare spots, under the shade of trees. With this mixture the above can be easily corrected. It is a combination of grasses which are found growing in the woods in their natural state. Ground that has been densely shaded by trees is frequently "sour" and is apt to be covered with moss. In such cases apply slacked lime at the rate of one bushel per thousand square feet, but the moss should be first removed with a rake. **Price: Lb., 35c. 5 lbs., \$1.65. Bushel of 20 lbs., \$6.00. Add 8c. for postage.**

"TERRACE" SOD MIXTURE

A special mixture of grasses best suited for sowing on terraces, railroad embankments and side hills—grasses that produce strong, spreading roots, thus preventing heavy rains from washing them out; that will withstand drought and exposure, thrive on shallow soils, and at the same time produce a rich, velvety green turf throughout the season. **Qt., 35c. Peck, \$2.00. Bushel of 20 lbs., \$6.00.**

WHITE DUTCH CLOVER (TRIFOLIUM REPENS)

The best variety for lawns, as it forms a close herbage and remains green throughout the season. It is also valuable when mixed with grass seeds for pasture. Sow in spring at the rate of 6 pounds per acre when sown alone; half the quantity when sown with other grasses. **Pound, 60c. By mail, 65c. 10 pounds, by express, \$6.00.**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

FORAGE AND SILO SEEDS

SHOULD BE SOWN IN THIS LATITUDE, NOT BEFORE MAY 15th, AS THE SEED WILL NOT STAND COOL, WET WEATHER.

COW PEAS

The great soil enricher. Makes poor land rich and good land better. They also make good green forage for ensilage, and the best quality of Hay when cut and cured.

The sowing of **COW PEAS** is one of the cheapest as well as the best means of improving the soil. They can be turned down for green manuring, or, if allowed to ripen, cut Peas off and cure for hay; turn down roots, which will give as good results as when whole plant is used. For ensilage they are unsurpassed, being more nutritious than green corn, but when used for this purpose, would advise sowing Sugar Cane or Sorghum in connection with them. The two combined will make one of the very richest feeds. Ask for prices.

BLACK—This is the standard variety, and the one most largely grown in this immediate section. It is very prolific, makes a fine growth, both of vine and leaves, and a good yield of peas. It is a splendid land-improver, and most valuable as a forage crop, and makes an enormous yield of rich, nutritious feed.

WHIPPOORWILL—A favorite, early, upright-growing variety, more largely used and sold than any other kind. Has brown speckled seed, which are easily gathered. Makes a good growth of vine, which can be easily cut and cured as dry forage. We recommend this where an early variety of good growth and height is desired.

WONDERFUL, OR UNKNOWN—This makes an enormous and remarkable growth of vines, but requires the full growing season to make its crop. In yield and growth of vines it surpasses any of the varieties of Cow Peas, and it produces very largely of the shelled peas. This variety should be planted in May in order to come to full maturity.



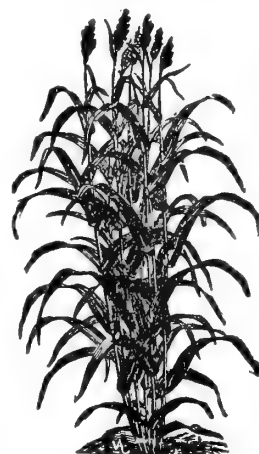
COW PEAS

NEW ERA—An early maturing variety which has proved very popular and satisfactory. It is upright growing, quick to mature, and remarkably prolific of peas. Rather small vine, which cures easily, making splendid dry forage. The seed are smaller in size than the ordinary cow-pea, so that it does not require as many to seed an acre; from three-fourths to one bushel per acre will give ample seeding. **PRICES ON APPLICATION.**

SORGHUM, OR SUGAR CANE

EARLY AMBER grows 10 to 12 feet high, and yields large crops of fodder, which is relished by all kinds of stock. It will produce two cuttings during the summer. Sow 3 or 4 quarts per acre in drills and cultivate same as corn. For hay, sow one bushel per acre broadcast. **Found, 10c. Peck, 50c.**

EARLY ORANGE has a large, strong growth, but requires longer time to mature than the Early Amber. Very popular in the South, where there are long seasons. **Prices same as Early Amber.**



EARLY AMBER CANE

SOJA BEANS

The great drought-resisting forage crop; unsurpassed in nutritive value for feeding; also makes a splendid soil improver. Sow broadcast one-half bushel to the acre, or it may be planted in drills three feet apart and one foot between plants. **Price on application.**

MAMMOTH YELLOW SOJAS

The largest-growing and most popular of soja beans for forage purposes. A little later in maturity than other kinds, but makes larger yields, both of forage and seed. Especially valuable for the South.



SOJA BEANS

HOLLYBROOK EARLY SOJAS

Makes a quicker growth and matures their crop two to three weeks earlier than the Mammoth Yellow Soja. It makes a large yield, both of forage and peas, and the added advantage of its earliness makes it a most distinct and valuable acquisition. It is a sure cropper and a vigorous, quick-growing variety. Sown as a forage or hay crop, it is much easier to cure and handle, and makes even a more nutritious crop than cow-peas.

WILSON BLACK SOJAS

One of the best, in our opinion, for the Northern States, where a quick, early variety is desired. Average height on good land is 2½ to 3 feet. A very prolific variety, and requires about 90 days to be ready to cut for hay.

KAFFIR CORN

The heads contain small white seeds, which make an excellent flour. They are greedily eaten by horses and cattle, and make fine feed for poultry, either fed in the grain or ground and cooked. Use 4 to 5 lbs. to acre. **Price, Pound, 10c. Ten Pounds, 50c.**



GENUINE KAFFIR CORN

ASK FOR QUOTATIONS ON ABOVE.



GERMAN MILLET.

GERMAN MILLET

GERMAN MILLET.—A fine, quick-growing summer Hay crop. Produces splendid crops of fine nutritious hay. Grows quickly and easily cured. Should be sown thick, not less than one bushel per acre. Cut while in flower. Do not wait until seed becomes hard in head. If allowed to get too ripe stalks get hard and do not make as good quality of hay as when cut at proper time. It should be sown any time after middle of May up to first of August. Should not be sown too early, as seed will not germinate until soil and weather is warm. A crop will mature in seven to eight weeks in ordinary warm growing weather. Price, **Lb., 10c. Peck, 50c.** Ask for price by the bushel.

HUNGARIAN MILLET

HUNGARIAN MILLET is of the same family as German Millet, but is not used as extensively, as it requires stronger soil. However, it makes a very fine quality of hay, and like German Millet is fairly good substitute for Timothy. Hungarian Millet can be sown at the same time as German. Price, **Lb., 10c. Peck, 50c.** Ask for price by bushel.

CANADA FIELD PEAS

Sown in February, March or April, with a small quantity of oats, they make large yield of forage. Sow 1 to 1½ bushels per acre broadcast with half a bushel of oats. Cut for hay before the peas mature. **Peck, 65c.**

Write for Special prices if a quantity is required.

BROOM CORN

50 Pounds to Bushel.

To grow Broom Corn successfully the ground should be rich and well prepared. Plant seeds in rows 3 feet apart by 18 inches. The plants should be cultivated as soon as they are out of the ground. Harvesting should be done when the seed is in a soft, milky condition.

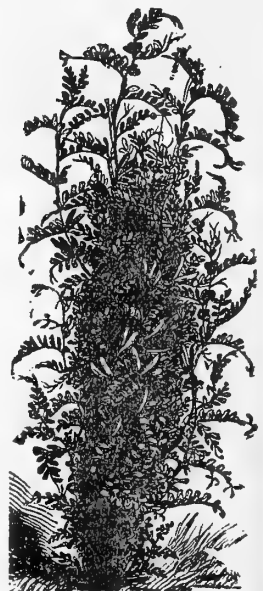
IMPROVED EVERGREEN.—This is the favorite sort; has a fine brush, yields well and keeps green. Height, 8 to 9 feet. **Lb., 25c., postpaid. Peck, 90c. Bus., \$3.00.**

RUSSIAN SUNFLOWER

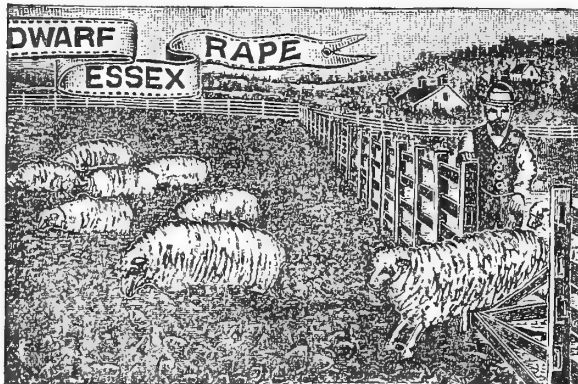
Growing to double the size of the common sunflower and the yield of seed is twice as great. It is highly recommended for poultry—the best egg-producing food known. **Lb., 10c.**

DWARF ESSEX RAPE

It can be sown all through the season; being perfectly hardy, withstands the drought, and will produce a crop in any soil by sowing broadcast at the rate of 5 lbs. to the acre, or 2 to 3 lbs. in drills. It is unequaled as a pasture for sheep, and as a fattening food for all kinds of live stock it is without a rival. **Lb., 12c.;** by express, 10 lbs. and over, **10c. lb.,** not prepaid; **\$9.00 per 100 lbs.,** if wanted by mail, add 8c. per lb. for postage.



VETCHES.



VETCHES OR TARES

SPRING VETCHES (*Vicia sativa*).—Closely associated with peas in character. Highly valuable for soiling or for green manuring. Sometimes grown with oats for mowing and feeding to stock. Use 40 to 60 lbs. to the acre. Sow in spring while ground is cool and moist, or in early autumn. **Pound, 10c. Peck of 15 Pounds, \$1.25.**

WINTER VETCHES (*Vicia villosa*).—Also called Sand Vetch or Hairy Vetch. Recommended for fall sowing with rye, as in many localities in the North it is hardy, remaining green all winter. A valuable food for stock in early spring. Use 30 to 50 lbs. per acre. **Pound, 20c.**

TEOSINTE

A most valuable and enormous-yielding cutting forage crop, but should be planted very early to succeed well. Good to use as green food, and also makes an excellent fodder. It branches as many as 50 stalks from one seed. Plant in May or June in rows 4 to 5 feet apart each way. **Oz., 10c. ¼ lb., 30c. Lb., \$1.00, postpaid.**

FLAXSEED—**Lb., 10c. 3 lbs., 25c.**

ASK FOR QUOTATIONS ON ABOVE.

FLOWER SEEDS

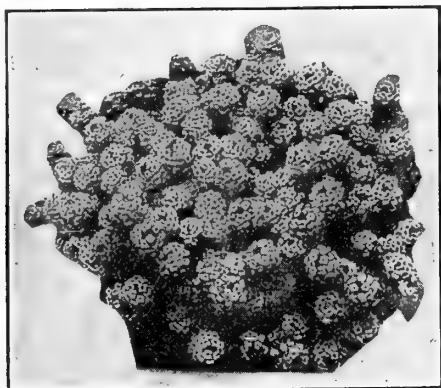
TEN 5c PAPERS, MAILED, FOR 25c, OR FOUR 10c PAPERS FOR 25c. ORDER BY NUMBERS.

GENERAL DIRECTIONS FOR CULTIVATION.

Hardy Flower Seeds should be sown in the open, after danger of frost is past, in well-worked and moist soil. Seeds of medium size, put at depth of one-quarter to one-half inch. Very fine seeds, press into the soil, and cover slightly with a little sand or sphagnum moss. If seed is not deep, water frequently. When up, transplant from two to twelve inches apart, according to variety of plants. Do not leave too thick, as the plants will be weak and spindling. Keep weeds out of the flower beds. Annuals may be planted in early spring, and bloom the first season only. Biennials bloom the second year from seed and then die. Perennials bloom the second year from seed, and plants live to bloom during successive years.

Varieties marked ("A") stand for Annuals. Marked ("B") Biennials. Marked ("P") Perennials.

1. **AGERATUM—Mixed (A)**—Feathery flowers borne in dense clusters, blooming nearly all summer, and useful for bouquets, borders or bedding. Mostly White and Blue blooms. Packet, 5c. each.



TOM THUMB ALYSSUM.

2. **ALYSSUM, Sweet (A)**—Small white flowers of delicate fragrance. Sow seed in open ground, very early in spring. Packet, 5c.; oz., 20c.

11. **ALYSSUM (A) (Tom Thumb)**—Of dwarf, compact habit, each plant covering a circle from 15 to 30 inches. It will bloom when small, and remain covered with bloom from spring to autumn. Oz., 25c. Packet, 5c.

20. **AMARANTHUS, MIXED (A)**—Showy blooming plants, with long racemes of curious-looking flowers and brilliant foliage; half-hardy annuals. Packet, 5c.

21. **AMARANTHUS, TRI-COLOR (Joseph's Coat) (A)**—Red, yellow and green foliage; 2 feet. Packet, 5c.

22. **AMARANTHUS CAUDATUS (Love Lies Bleeding) (A)**—Graceful and handsome flowers of blood-red hue. Packet, 5c.

24. **ANTIRRHINUM, MIXED (P)**—(Snapdragon)—Half-hardy, growing from 1½ to 3 ft.; oddly-shaped flowers on long spikes; easy culture. Packet, 5c.

ASTERS

Sow seed in March and April in cold-frame or boxes in the house, covering them ¼-inch deep, and when plants have three or four leaves, transplant about 18 inches apart each way into well-prepared beds.

25. **CHINA (A)**—Choice mixed varieties. Packet, 5c.

26. **GERMAN (A)**—All colors and shades of the best German sorts. Packet, 5c.

27. **TRUFFAUT'S PERFECTION (A)**—A very favorite class; thrifty, upright growers; flowers large, almost perfectly round, with incurved petals. The florist's preference; 1½ to 2 feet. Packet, 10c.

28. **PRINCESS SNOWBALL (A)**—The flowers are pure white, and are formed of short, thickly set imbricated petals, there being about 25 to 30 on a plant. Packet, 10c.

29. **MIGNON (A)**—A splendid new class of Asters. The plants are semi-dwarf, and bear in profusion flowers of a very double nature, the petals overlapping each other. Pkt., 10c.

30. **VICTORIA (A)**—The most beautiful of all Asters, bearing flowers of all colors and shades; the colors include many extremely delicate and gorgeous shades. Very double and four inches across; height, 15 to 18 inches. Packet, 10c.

31. **COMET (A)**—This class of Asters has long, slender and curled petals, forming loose yet dense flowers of semi-globe shape, 3½ to 4½ inches in diameter, which resemble the Japanese Chrysanthemum. Packet, 10c.

32. **DWARF CHRYSANTHEMUM FLOWERED (A)**—Grow 9 inches high; surpass all the dwarf varieties in size of flowers. Packet, 10c.

33. **SEMPLER'S BRANCHING, MIXED (A)**—A choice strain of American-grown Asters, which has, by careful selection, been brought to a high degree of excellence. Packet, 10c.



33—SEMPLER'S BRANCHING.

34. **SEMPLER'S BRANCHING (A) (White)**—Very choice. Packet, 10c.

35. **BACHELOR'S BUTTON, or BLUE BOTTLE (A)—Centauria Cyanus**—A very old favorite garden annual, with handsome flowers of various colors. It does best if sown in a hot-bed; half-hardy annuals; 2 feet. Packet, 5c.

40. **DOUBLE BALSAM F CAMELIA FLOWERED (A) (Lady Slipper)**—One of the finest summer-blooming annuals, free bloomers and highly colored. By transplanting them once or twice, the flowers are apt to be more double. Pkt., 5c.

41. **BALSAM, PERFECTION WHITE (A)**—This resembles the mixed Balsams in shape, but the flowers are of a pure white. Packet, 10c.

CANDYTUFT—Almost as fragrant as Sweet Alyssum; very popular and useful as bedding plant or border work. Sow out of doors early in spring, where they are to bloom, and thin well when the plants grow about an inch; then sow again in July for fall flowers.

45. **MIXED (A)**—Packet, 5c.; ½ oz., 10c.

46. **WHITE (A)**—Packet, 5c.

50. **CALCEOLARIA DWARF (A)**—This is a magnificent ornamental plant for greenhouse or conservatory, bearing in profusion pocket-shaped flowers of all colors, spotted and blotched in the most fanciful fashion. Packet, 25c.

53. **CALENDULA, DOUBLE (A)**—Very profuse dwarf bushy annuals, blooming continuously and profusely until frost; of easy culture, and suitable for summer garden or for growing in pots in winter. Packet, 5c.

55. **CANNA, MIXED (Extra Choice) (A)**—The Cannas are desirable not only for the beauty of their spikes of flowers, but for their highly ornamental leaves. They make superb beds for the lawn. Soak the seeds thoroughly before planting, and keep in a warm spot. Very slow to germinate. Packet, 5c.

CANTERBURY BELLS—Beautiful hardy biennials, bearing a profusion of bell-shaped flowers of exquisite colors. Does best in a rich, light soil. Height, 2½ feet.

60. **CANTERBURY BELLS, SINGLE MIXED (Campanula) (B)**—Packet, 5c.

61. **CANTERBURY BELLS, 'DOUBLE MIXED (B)—**Packet, 5c.

FLOWER SEEDS THAT GROW

Ten 5c Papers Mailed for 25c,
or Four 10c. Papers for 25c.



CALLIOPSIS.

88. **COWSLIP (P).**—Beautiful hardy spring flowers of different colors. **Packet, 10c.**

89. **COLEUS (A).**—Very choice plants, with richly colored foliage of maroon, green, crimson, yellow, etc. **Packet, 25c.**

90. **CONVOLVULUS, TRI-COLOR MINOR (Dwarf Morning Glory) (A).**—A beautiful class of hardy annuals, affording a large, showy mass of flowers from July to October. **Packet, 5c.**

93. **COREOPSIS (Calliopsis) (P).**—Beautiful annuals, with large bright golden yellow flowers, varied with rich brown. Excellent for cutting and decoration. Height, 2 feet. **Packet, 5c.**

93a. **COREOPSIS LANCEOLATA (P).**—IMPROVED (California Sunbeams).—This is one of the finest of hardy plants, with large, showy, bright golden-yellow flowers, freely produced on long stalks, from June till frost; excellent for cutting; will thrive in almost any situation. **Packet, 5c. ¼ oz., 25c.**

COSMOS

COSMOS. One of the very finest late summer and fall flowers; excellent cut flowers. The bushes grow tall, six to eight feet, and are loaded with large showy blossoms, in white, pink or crimson. Cosmos should be in every garden. Sow the seed early and transplant, or later in spring where it is to remain. Hardy annual.

94. **Early Flowering Dawn (A).**—White slightly tinted with pink. **Packet, 10c.; Oz., 50c.**

95. **Mixed (A).**—**Packet, 5c. Oz., 25c.**

95a. **Pink (A).**—**Packet, 5c.**

95b. **White (A).**—**Packet, 5c.**

95c. **Crimson (A).**—**Packet, 5c.**

95d. **NEW MARGUERITE COSMOS (A).**—One of the prettiest and daintiest varieties imaginable. **Packet, 10c.**

63a. **CENTAUREA GYMNOCARPA.**—Fine Cut silver-gray foliage; 1½ feet. **Packet, 5c. ¼ Oz., 10c.**

68. **CENTAUREA CANDIDISSIMA.**—Silver white; leaves broadly cut. **Packet, 5. ¼ oz., 10c.**

70. **CHRYSANTHEMUMS, SINGLE, MIXED (A).**—Showy and effective garden favorites; extensively grown for cut flowers. The hardy annuals are summer flowering border plants; good for pot culture and quite distinct from the autumn flowering varieties. **Packet, 5c.**

71. **CHRYSANTHEMUMS FRUTESCENS (A).**—(The Marguerite, or Paris Daisy.)—It produces freely its white, star-like flowers under the most favorable conditions. **Packet, 10c.**

CINERARIA.—Seed should be sown in well-drained seed pans or shallow pots of light rich soil, giving the seed but a very slight covering. Place a piece of glass over the pot to retain moisture. When the plants have made their first pair of leaves they should be potted off into smaller pots. As fast as the pots are full of roots, shift into larger ones till the flowering size is reached.

75. **CINERARIA (Dusty Miller) (P).**—Fine for bedding, ribbon beds and margins; prized for their beautiful, downy, silvery foliage; half-hardy perennials; 2 feet. **Packet, 5c.**

76. **CINERARIA HYBRIDA (P).**—Large flowered prize varieties; very attractive, free blooming plants, producing large and brilliant flowers. **Packet, 25c.**

77. **CINERARIA HYBRIDA DWARF (P).**—Large flowered, dwarf prize varieties; splendid strain. **Packet, 25c.**

80. **CLARKIA (A).**—Hardy annual, of easy cultivation, graceful in habit and growth. Long stemmed flowers, resembling chrysanthemums, growing 1 foot high, from July to October. **Packet, 5c.**

85. **COCKSCOMBS (Celosia Cristata) (A).**—Very popular annuals of the easiest culture, highly ornamental for decoration of the greenhouse, drawing-room and garden. Half-hardy annuals. **Packet, 5c.**

86. **COCKSCOMBS, GLASGOW PRIZE (A).**—Immense, showy, dark crimson combs. **10c.**



COSMOS

CHOICE FLOWER SEEDS

Ten 5c Papers Mailed for 25c
 Or Four 10c Papers for 25c



CYCLAMEN.

96.—CYCLAMEN—Tuberous-rooted pot plants, producing handsome red and white flowers for blooming in window garden or greenhouse.

Sow the seed, which is of rather slow germination, in shallow boxes or pans, using light rich soil and covering the seed slightly. Keep at a temperature of 50 degrees to 60 degrees F., and water freely until well started. Seed sown in spring, by autumn will produce a little bulb. If this is placed first in a three-inch pot, and later repotted, as required, in a five- or six-inch pot, it will produce blooms the following spring. Seed may also be sown in fall. Tender perennial, one foot high. **Packet, 25c.**

DAHLIA.

One of our best autumnal flowering plants. Blooms until killed by frost; tuberous-rooted, half-hardy perennials, blooming the first year from seed if sown early.

100. SINGLE MIXED (A)—Large, showy flowers. **Packet, 5c.**

100a. CACTUS DAHLIA (A)—A most curious and desirable variety of many colors. **Packet, 5c.**

DAHLIA ROOTS AND PLANTS IN GREAT VARIETY—(See Plant Department for full description of the many kinds and prices.)

DAISY.

Well-known favorites, admirably adapted for edgings, borders and low beds, and it is also suited for growing in pots. Although they are perennials, they will flower the same season if seed is sown early in the house.

97. DAISY, MIXED (P)—**Packet, 10c.**

98. LONGFELLOW (P)—Large, double pink. **Packet, 10c.**

99. SNOWBALL (P)—Very double, pure white flowers. **Packet, 10c.**

103. FEVER-FEW (GOLDEN FEATHER) (Pyrethrum Aureum) (P)—A highly ornamental golden-yellow foliage plant, unexcelled for bedding. Hardy perennial; 1½ feet. **Packet, 5c.**

105. FORGET-ME-NOTS (Myosotis) (P)—Neat and beautiful little plants, with star-like flowers, succeeding best in a shady, moist situation; half-hardy perennials; blooming the first year from seed if sown early. **Packet, 5c.**

106. FOXGLOVE (DIGITALIS) (P)—A handsome and highly ornamental hardy perennial plant of stately growth; fine for shrubberies and other half-hardy places; 3 feet. **Packet, 5c.**

107. GERANIUM (New Zonale) (A)—A grand strain of Geraniums, containing all shades of colors. **Packet, 10c.**

108. GODETIA—Profuse-blooming annuals of beautiful colors; fine for bedding or pot culture. Hardy annuals. 1 foot. **Packet, 5c.**

109. GAILLARDIA (A)—Very attractive plants, producing a profusion of bloom the entire summer and autumn. Half-hardy annuals. **Packet, 5c.**

110. GILIA MIXED (A)—Very pretty dwarf plants, early, free blooming; fine for massing and rock work. Hardy annuals. **Packet, 5c.**

111. GLOXINIA—Greenhouse perennial plants producing soft, velvety green leaves, and rich, beautifully colored trumpet-shaped flowers. Gloxinias thrive best in an equal mixture of leaf mold, loam and sand. If started in February will usually bloom the latter part of summer. Seed may also be sown in fall. The plants are delicate and not easily grown, but the flowers are of such beauty that one generally feels amply repaid for the effort. **Packet, 25c.**

112. HELIOTROPE—A half-hardy perennial, growing 4 to 8 feet high. Small flowers, borne in graceful clusters, and very fragrant. Will bloom the first season from seed if sown early. **Packet, 5c.**

115. HOLLYHOCK, CHATERS SUPERB MIXED (P)—Perennial plants of stately growth. The blossoms are set as double and semi-double rosettes around the flower stalk in almost every color. Makes a charming hedge or background. **Packet, 5c.**

116. HOLLYHOCK, CHATERS DOUBLE WHITE (P)—**Packet, 10c.**

120. LARKSPUR (Delphinium) (A)—One of the most showy and useful plants, possessing almost every requisite for adornment of the garden. **Pkt., 5c.**

135. MIGNONETTE — SWEET (Reseda Odorata)—A well-known and universal garden favorite, and one that requires no extra instructions for growing. Hardy annuals. **Packet, 5c. Oz., 15c.**

136. MIGNONETTE—PYRAMIDAL—Large flowered. The largest flowered of all Mignonettes. Annual. **Packet, 5c., Oz., 15c.**

137. MACHET—True dwarf-growing variety; enormous spikes of beautiful, deep red-dish crimson flowers; height, 1 foot. **Per Pkt., 10c.; ¼ Oz., 20c.; Oz., 50c.**

138. MIGNONETTE VICTORIA (A)—A splendid new, compact-growing variety of dense pyramidal, growing about six inches high. The flowers are of a brilliant red, and are suitable for pot or garden. **Packet, 10c.**

139. ALLEN'S DEFIANCE (A)—When grown under favorable conditions, and with proper care, spikes will not only be of remarkable size—from 12 to 15 inches long—but deliciously fragrant; much more so than any other variety. **Packet, 10c. ¼ Oz., 15c.**

140. GOLDEN MACHET MIGNONETTE (A)—Distinct new variety of the well-known Machet of the same compact and robust habit, but differing from the type by its massive spikes of golden-yellow blossoms. **Packet, 5c. ¼ Oz., 10c.**



DAISY.



GAILLARDIA.

121. LARKSPUR EMPEROR (P)—Of symmetrical bushy habit, with a profusion of brilliant dark-blue, red-striped and tri-colored flowers. **Packet, 5c.**

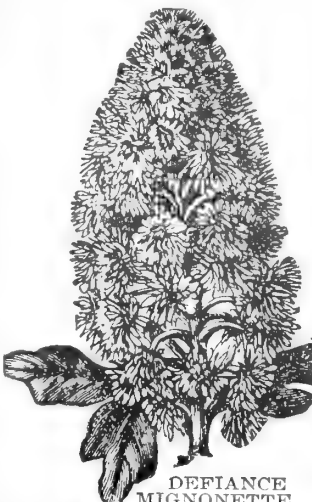
LOBELIA.

A beautiful and popular flower, very desirable for pot culture, beds or hanging baskets because of its trailing habits. Grows easily, and does well in beds and rockeries. Bears a profusion of blue and white flowers.

122. MIXED VARIETIES (A)—**Packet, 5c.**

123. CRYSTAL PALACE COMPACTA (A)—Rich deep blue. The finest for bedding. **Packet, 10c.**

MIGNONETTE—The delightful fragrance of the Mignonette makes it a universal favorite. Sow seed in the fall for early blossoms in the spring. Valuable for potting, bedding or for border.



DEFIANCE MIGNONETTE.

HIGH-GRADE FLOWER SEEDS

TEN 5c PAPERS MAILED FOR 25c., OR FOUR 10c PAPERS FOR 25c

125. **MARIGOLD, DOUBLE AFRICAN (A)**—A well-known free-flowering plant, of easy culture, with rich and beautiful double various-colored flowers. Packet, 5c.

126. **MARIGOLD, DOUBLE FRENCH (A)**—Of compact habit, with numerous bright, showy flowers. Very fine. Packet, 5c.

130. **MARVEL OF PERU, or FOUR O'CLOCK (Mirabilis Jalapa) (A)**—Very pretty annual of vigorous growth. The flowers are brilliant, singularly mixed and varied on the same plant. Two feet. Packet, 5c.

131. **MATTHIOLA BICORNIS (A)**—Flowers dull purplish-lilac, but well worth growing for the charming fragrance which it emits during the evening. Packet, 5c.

133. **MESEMBRYANTHEMUM CRYSTALLINUM (Ice Plant) (A)**—Dwarf spreading plants of great beauty, blooming the entire summer, succeeding best in dry, sandy or loamy soil, and in a warm locality. Half-hardy annuals. Packet, 5c.

134. **MIMULUS**—The beautiful Monkey Flower. Packet, 5c.

NASTURTIUMS

Few plants are so useful or rich in color as the Nasturtiums. When well started, young plants should be transplanted or thinned out to stand six or more inches apart. Seed should be covered one inch in depth and, if at all dry, the soil should be firmly pressed above the seed, so as to enter closely the corrugations.

142. **DWARF MIXED**—The dwarf variety of Nasturtium is among the most useful and beautiful of annuals for bedding, massing, etc., owing to their compact growth, richness of color and profusion of bloom; mixed colors. Packet, 5c. Oz., 10c.

143. **DWARF-AURORA**—Blush white and salmon, blotched with garnet. Packet, 5c. Oz., 15c.

144. **DWARF-BEAUTY**—Bright scarlet, striped with yellow. Packet, 5c. Oz., 15c.

145. **DWARF (Empress of India)**—Very dark foliage, with deep crimson flowers. Packet, 5c. Oz., 20c.

146. **DWARF (Golden King)**—Brilliant yellow, with dark foliage. Packet, 5c. Oz., 15c.

147. **DWARF (King of Tom Thumb)**—Brilliant yellow flowers, blotched with maroon; dark foliage. Packet, 5c. Oz., 15c.

148. **DWARF (Ruby King)**—Light ruby red. Packet, 5c.; oz., 15c.

149. **DWARF (Cloth of Gold)**—Golden yellow foliage, light scarlet flowers. Packet, 5c. Oz., 15c.

150. **KING THEODORE-DWARF**—Scarlet maroon; black-brown foliage. Packet, 5c. Oz., 15c.

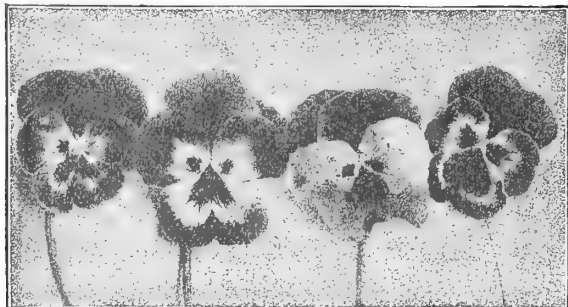
151. **TALL**—New foliage varieties; with white-marbled leaves. Packet, 5c. Oz., 15c.

310. **TALL MIXED**—Elegant, profuse, flowering plants, constantly growing in favor for verandas, trellis, etc. The seed pods can be gathered while green and tender for pickling. Packet, 5c.; oz., 10c.

153. **OXALIS**—Very pretty, herbaceous plants, with richly-colored blossoms. They thrive well in a mixture of loam and sand. Desirable for greenhouse decoration, rock work or baskets. Half-hardy perennial. Packet, 10c.

PANSIES-Annuals

Thrive best in a moist, shady location, and in rich, loamy soil. Seed should be sown in the autumn for early spring blossoms, or can be sown early in the year for good flowers late in the spring. The plants must be transplanted twice in order to get the largest flowers; once from the seed box to a chosen bed, and again to the open garden. This is important for large-size pansies; use manure liberally. The blossoms are usually larger in the spring and again in the fall, and while they bloom freely all summer, the blossoms are small during the hot months. While the plants carry over well with a little covering during the winter, it is best to plant new seed each year.



NASTURTIUM

155. **HEARTSEASE**—Mixed. An old but universally admired plant, producing an endless variety of color. They may be treated as annuals. Packet, 5c. ¼ oz., 25c.

156. **GIANT TRIMARDEAU**—Remarkable for the extra large size of the flower and an endless variety of beautiful shades. Packet, 10. ¼ oz., 50c.

157. **G. & T. CO'S EXTRA MIXED**—This mixture, containing the finest blotched varieties, is grown and selected with special care, and has given the most satisfactory results to both florists and amateurs in the past. Packet, 15c. Two Packets, 25c. ¼ oz., 75c.

158. **PANSY (Bugnot's Exhibition)**—A celebrated strain of extra large size, beautiful colors, handsome broad blotches, and finely penciled with stripes of delicate hue. The ground colors are generally dark, which, with light penciling and blotches, make a magnificent flower. They are a small seeder. Packet, 25c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

PETUNIAS.



Favorite, half-hardy, succeeding well in any rich soil. For the brilliancy and variety of the colors, and the long duration of their blooming period, they are indispensable in any garden. Sow seed early in spring, scatter thinly on an even surface, and barely cover the seed with sand. If intended for the open ground, prick out into a frame to be kept till planting-out time. If for pots, pot singly into small pots in strong rich soil mixed with sand, and shift as the plants grow larger.

FINE MIXED—Good mixture of small free-blooming colors. **Packet, 5c.**

166. SINGLE-FRINGED MIXED PETUNIA—Large flowers, four to five inches across, of every hue, each flower being beautifully fringed. **Packet, 25c.**

167. DOUBLE PETUNIA—About 30 per cent. will produce double flowers. **Packet, 25c.**

168. PETUNIA—Double-Fringed Mixed—The flowers of this sort being double, together with being fringed, are very beautiful. **Packet, 25c.**

175. PHLOX DRUMMONDII (A)—A most brilliant and beautiful hardy annual, about 1 foot high, well adapted for bedding, making a dazzling show through the whole season. It succeeds well on almost any soil. **Packet, 5c.**

176. PHLOX DRUMMONDII—(Nana Compacta) (A)—Very fine mixed. This new strain is of dwarf, compact habit, and makes desirable pot plants; also excellent for ribbon lines and massing. **Packet, 10c.**



RICINUS (Castor Bean).

RELIABLE FLOWER SEEDS

Ten 5c. Papers Mailed for 25c., or Four 10c. Papers for 25c.

PINKS—(DIANTHUS).

Seed may be sown in the open ground in spring after danger of frost is past in the place where the plants are wanted to bloom. Use well-pulverized soil, preferably sandy loam. Make the rows one foot to 15 inches apart, and cover the seed with one-fourth inch of fine soil, firmly pressed down. When 2 inches high, thin 6 to 8 inches apart.

180. PINK CARNATION, or PICOTEE. (Choicest Double Mixed *Dianthus Caryophyllus*)—Carnation and Picotee Pinks are generally favorites for their delicious fragrance, richness of colors and profuse bloom. Perennial. **Pkt., 10c.**

181. PINK CARNATION (Riviera Market, or Gillaud)—A magnificent variety of colors and shades, which will thrive either in open ground or pots. **Packet, 25c.**

182. PINK CARNATION—MARGUERITE—These lovely, fragrant Carnations produce fine double flowers. From seed sown in the garden early in the spring, the plants begin to bloom in about four months. All colors mixed. The finest strain. **Per Packet, 10c.**

185. PINK—(CHINA OR INDIAN PINK)—Blossoms in clusters, flowers very double and bloom in a large range of bright colors. **Packet, 5c.**

188. PINK—HEDDEWIGH (P)—Beautiful double flowers in a great variety of colors, with fringed white edges. **Packet, 5c.**

200. POPPY-CARNATION (Papaver) (A)—A showy and easily cultivated hardy annual, with large brilliant colored flowers, growing freely in any garden soil. **Packet, 5c.**

201. POPPY-PEONY FLOWERED (A)—A magnificent species, large, showy, double globule flowers, resembling Peonies in shape. **Packet, 5c.**

202. SHIRLEY POPPY (A)—These beautiful Poppies are generally single or semi-double. The colors, extending from one extreme to the other, are so varied that scarcely two are alike, while many are striped and blotched. The blooms, if cut when young, will stand for two or three days. **Packet, 5c.**

203. TULIP POPPY (A)—A magnificent species. The plants attain a height of 14 to 16 inches, and produce from about 50 to 60 flowers of the brightest scarlet. **Packet, 5c.**



TULIP POPPY.

204. ICELAND POPPIES, MIXED (A)—Although hardy perennials, these Poppies bloom the first season from spring-sown seed. The fragrant, elegant, crushed satin-like flowers are produced in never-ceasing succession from the beginning of June to October. **Packet, 5c.**

205. POPPY—IRRESISTIBLE (A)—A rare and beautiful Poppy, with immense flowers. Color, an exquisite rose. **Packet, 5c.**

195. PORTULACA (Mexican Rose) (A)—One of the finest hardy annual plants, of easy culture, thriving best in rather rich, light loam or sandy soil; the single-flowering varieties are large and brilliant, of the richest shades of color, and produced throughout the summer in great profusion; fine for massing in beds or edgings of rock work. **Pkt., 5c.**

196. DOUBLE PORTULACA (A)—**Packet, 10c.**

210. ENGLISH PRIMROSE (Primula Vulgaris) (P)—No collection of spring flowers is complete without a few of these charming little plants. A little covering in the late fall will protect them from the severe weather of winter, and the great number of flowers produced will more than repay you the extra trouble. They are not as generally grown as they should be. **Packet, 10c.**

211. CHINESE PRIMROSE (Primula Fringed) (A)—This variety is much prettier than the English, being fringed and of the most beautiful colors. They differ from each other like the double and single Petunias. **Packet, 25c.**

RICINUS (Castor Bean).

Stately, strong-growing plants, with very ornamental foliage, well adapted as center plants of groups of Cannas, Dahlias, etc. Moles are troublesome in many gardens, but they may be kept away by planting Castor Beans in the borders.

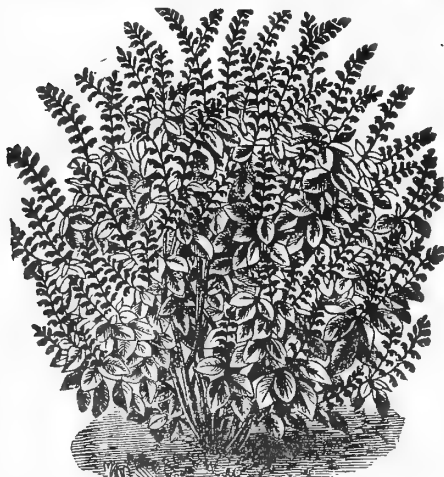
212. RICINUS, CAMBOGIENSIS (A)—Large leaves, dark bronzy-maroon; stalk and stems nearly black; 5 feet. **Packet, 5c.**

212½. RICINUS ZANZIBARIENSIS, MIXED (A)—Their immense leaves and gigantic plants exceed all other varieties. **Packet, 5c.**

213. SCABIOSA—GRANDIFLORA (P)—An old-fashioned but most attractive flower. Its great abundance and long succession of richly colored, fragrant blossoms on long stems make it one of the most useful decorative plants of the garden. Seed may be sown in place as soon as ground can be worked; or, for earlier blooming, sow in hotbed early in spring and transplant one and one-half feet apart. Hardy annual; 12 to 18 inches high. **Packet, 10c.**

THE BEST FLOWER SEEDS

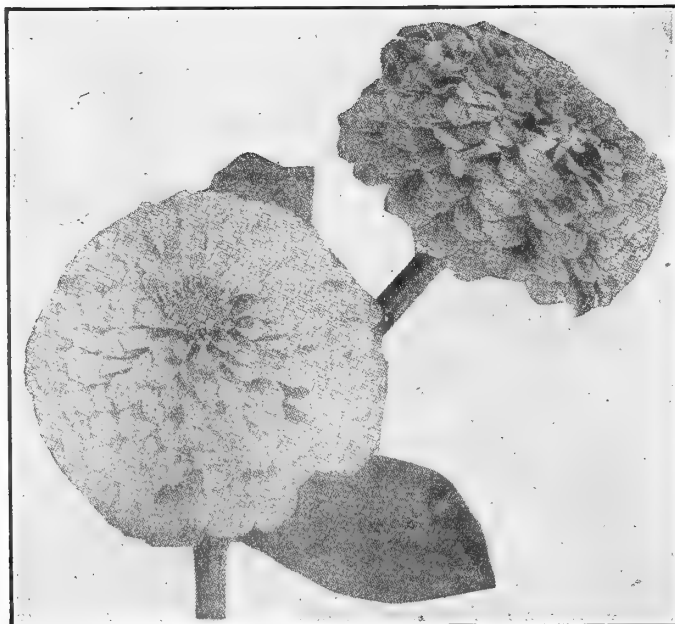
Ten 5c Papers Mailed for 25 cts.,
or Four 10c Papers for 25 cts.



Salvia Splendens.



DIANTHUS BARBATUS.
("Sweet William.")



ZINNIAS.

215. **SCARLET SAGE** (*Salvia Splendens*) (A)—Tall, erect, green foliage. A favorite greenhouse and bedding plant, bearing long spikes of flowers in great profusion from July to October; half-hardy perennial, blooming the first year from seed. Three feet. **Packet, 5c. ¼ Oz., 45c.**

216. **SCARLET SAGE—CLARA BEDMAN** (*Bonfire*) (A)—Dwarf, green foliage, flowers close to the ground. The finest *Salvia* ever introduced. **Packet, 5c. ¼ Oz., 65c.**

220. **SENSITIVE PLANT** (*Mimosa*)—Curious and interesting plants, with pinkish-white flowers; the leaves close in and droop when touched or shaken; tender annual. **Packet, 5c.**

230. **TEN WEEKS STOCKS** (*Gilliflower*)—A world-wide favorite, brilliant and varied in color, equally well-adapted for massing, bedding, edging or pot culture. Very profuse bloomers. Should be grown in rich soil. **Packet, 5c.**

231. **STOCKS—SNOWFLAKE IMPROVED**—A beautiful dwarf-growing variety; very large, double, snow-white flowers. **Packet, 10c.**

237. **SWEET ROCKET** (*Hesperis*) (A)—Very pleasing, early spring flowering, profuse blooming plants, with fragrant flowers, growing freely in any light, rich soil. **Packet, 5c.**

240. **SWEET WILLIAM** (*Dianthus Barbatus*) (P)—A well-known free flowering, popular favorite; the great improvements upon the old varieties made within the last few years have rendered it still more desirable. Hardy perennials. **Packet, 5c.**

243. **SWEET VIOLET** (A)—Deservedly much in demand, because of their profusion of bloom and delicate, sweet odor. **Packet, 10c.**

244. **TORENIA** (A)—Charming plants for pot-culture, vases or hanging baskets. They succeed well also in the open ground in summer, and are very attractive in beds or masses. **Packet, 5c.**

245. **MAMMOTH VERBENA** (A)—One of the most popular and useful bedding plants. Verbenas delight in sunny situation, rich soil and thorough cultivation. **Packet, 5c. ½ Oz., 25c.**

VINCA (*Periwinkle*)—Very attractive bushy plants, with glossy green foliage, producing in abundance handsome round or salver shaped single flowers, suitable either for culture in pots or boxes or for summer bedding and borders.

250. **VINCA ROSA** (A)—Rose with dark eye. **Packet, 5c.**

251. **VINCA ALBA** (A)—White, with crimson eye. **Packet, 5c.**

255. **WALLFLOWER, DOUBLE** (A)—Well-known, deliciously fragrant plants with large spikes of double flowers, similar to the *Gilliflower*. Succeed in light, rich soil, in a moist atmosphere. Perennials. **Packet, 10c.**

ZINNIAS

Very showy plants, with large, double imbricated flowers, which, when fully expanded, might easily be mistaken for dwarf dahlias. There is much satisfaction in a bed of Zinnias, for when nearly every other flower has been killed by frost, this plant is still in full bloom more abundantly throughout the season. Sow the seed early in spring, in open ground, and transplant to one and one-half feet apart in good, rich soil. Half-hardy annual; about eighteen inches high.

258. **ZINNIA ELEGANS** (*Youth and Old Age*) (A)—This is one of the most brilliant of annuals, and has long been a general favorite. The flowers are large, finely formed, in great variety of colors, and continue to bloom the entire season. Half-hardy annuals. **Packet, 5c. Oz., 25c.**

259. **ZINNIAS CURLED AND CRESTED** (A)—New, odd and superb. Petals twisted, curled and crested into fantastic contortions and graceful forms. A magnificent variety of colors. **Packet, 5c. ½ Oz., 15c.**

260. **ZINNIA—DOUBLE POMPON** (A)—Long, cone-shaped flowers, very fine. **Packet, 5c. ½ Oz., 20c.**

261. **ZINNIA—ZEBRA FLOWERED** (A)—Double striped, profuse bearer of fine double flowers in many colors. **Packet, 5c. ½ Oz., 15c.**

ZINNIA—CRIMSON—Packet, 10c.

ZINNIA—WHITE—Packet, 10c.

General List of Climbers

Ten 5c Papers Mailed for 25c, or Four 10c Papers for 25c

270. BALSAM APPLE (Momordica) (A)—Very curious trailing vines, with ornamental foliage; fruit golden yellow; when ripe, opens, showing the seeds and its brilliant carmine interior. **Packet, 5c. Ounce, 30c.**

272. BALLOON VINE (Love in a Puff) (A)—A rapid growing plant; succeeds best in light soil and warm situation; flowers white; half-hardy annual. **Packet, 5c.**

275. CANARY BIRD FLOWER (Peregrinum) (A)—With yellow, canary-like flowers; very ornamental and beautiful foliage; half-hardy. **Packet, 5c.**

276. COBEA SCANDENS (P)—A beautiful, rapid-growing climber, with handsome foliage and large bell-shaped flowers; blue; half-hardy perennial; grows 20 to 30 feet high. **Packet, 10c. Ounce, 40c.**

278. CYPRESS VINE, RED (Ipomea Quamoclit) (A)—One of our most popular vines, with very delicate fern-like foliage, and masses of beautiful, small, star-shaped flowers. Sow last of May; 15 feet. **Packet, 5c.**

279. CYPRESS VINE, WHITE (A)—Usually grown with the red, making a handsome effect. **Packet, 5c.**

282. MAURANDIA (Barclayana) (A)—These charming climbers cannot be too highly praised for their beautiful flowers and foliage. They are admirably adapted for hanging baskets, vases or trellis work. **Packet, 5c.**

GOURDS

These are desirable in many places where an immense amount of vine is wanted quickly. Most sorts are good for 20 to 30 feet in a season, and the blooms of some are quite striking and handsome. With many sorts the fruit is unique and ornamental and often useful. The small fancy gourds are excellent toys for children, while the larger gourds may be used as dippers, sugar troughs and bowls.



285. MIXED GOURD (Cucurbita) (A)—**Packet, 5c.**

286. NEST EGG GOURD (A)—White fruit, shaped like an egg. Used as a substitute for nest eggs. **Packet, 5c.**

DISHCLOTH GOURD—Many women prefer a dishcloth made of this Gourd to anything else, as it is always sweet and clean as long as any part of it is left. **Packet, 5c.**

288. DIPPER GOURD (A)—Makes an excellent dipper. **Packet, 5c.**

290. MOCK ORANGE (P)—Fruit shaped like an orange. **Packet, 5c.**

291. CALABASH OR PIPE GOURD—Odd-shaped fruit, which is used to an advantage in making pipes. **Packet, 5c.**

295. HEAVENLY BLUE IPOMEA (A)—The flowers are in large, airy clusters, and of that lovely hue so rarely seen. Flowers four to five inches across. **Packet, 5c.**

300. MORNING GLORY (Convolvulus Major)—One of the most free-flowering and rapidly-growing plants in cultivation, thriving in almost any situation. The beauty and delicacy of their brilliant flowers are unsurpassed; hardy annuals. **Packet, 5c. Ounce, 15c.**



302. GIANT JAPANESE MORNING GLORY (See Cut)—This plant has been developed to such a state of perfection that it now produces flowers of immense size and almost endless variety of color and markings. Some of the flowers are brilliant red, or rich blue self-colored; others are equally brilliant, with broad margins of clear white. Not only are the flowers varied, but the foliage is equally so; some of it comes plain green, and part is mottled with white and shades of yellow or yellowish green. **Packet, 10c. Ounce, 20c.**

305. MOON FLOWER (Ipomoea Noctiflora)—Charming and popular blooming climbers; of rapid growth and showy effects; warm, rich soil, with a sunny exposure, suits them. **Packet, 5c. ½ Ounce, 20c.**

162. PASSION FLOWER (Southern Beauty)—A most interesting and well-known order of climbers, bearing singularly beautiful flowers.

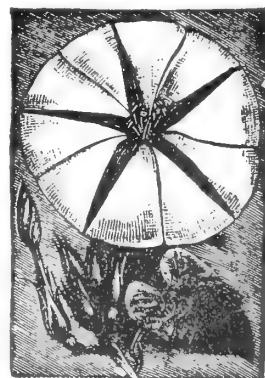
Packet, 10c.

320. SCARLET RUNNERS—Very handsome climbing Beans, with bright scarlet flowers.

Packet, 5c.

326. SMILAX—Charming climber for greenhouses or window gardens.

Packet, 5c.



Moon Flower

SWEET PEAS

CULTURE.

Sweet Peas should be sown in drills latter part of November for fall planting, or as early as possible in spring, in rich, friable soil. Prepare the bed thoroughly, working in a quantity of well-rotted manure, if it can be done, making a furrow 4 to 6 inches deep. In this sow the seed and cover 2 inches deep. As soon as the plants begin to show through, fill in the furrow. This will secure a deep planting without the bad effect of deep covering of the seed at first, and so enable the plant to bloom continuously through the heat of summer. As fast as the flowers come into full bloom or fade they should be cut off, for if the pods are allowed to form the plants will stop blooming.

379. SUPERB SPENCER MIXTURE—This mixture is made up from our carefully prepared formula. It contains practically all the true Spencer varieties introduced to date. Great attention is given to secure a beautiful light mixture, and yet include all shades, nicely balanced and proportioned.

Per Oz., 15c.; $\frac{1}{4}$ lb., 50c.; 1 lb., \$1.75.

377. G. & T. CO.'S EXTRA FINE, MIXED—Consists of the very choicest varieties mixed in the newest colors and shades.

Packet, 5c.; Oz., 10c.; $\frac{1}{4}$ lb., 25c.; $\frac{1}{2}$ lb., 45c.; 1 lb., 75c.

Postage, 6c. per lb. Extra.

378. ECKFORD'S FINE MIXED—One of the finest mixtures of the Eckford varieties.

Packet, 5c.; Oz., 10c.; $\frac{1}{4}$ lb., 25c.; $\frac{1}{2}$ lb., 45c.; 1 lb., 75c.

Postage, 6c. per lb. Extra.

Grandiflora Sweet Peas

SWEET PEAS IN SEPARATE COLORS.

- 350. AGNES JOHNSON**—Light, pink shaded and buff.
- 351. AMERICA**—Bright red and white striped.
- 352. JEANNIE GORDON**—Standard bright rose; wings primrose, tinted with light rose.
- 353. AURORA**—White, with stripes and flakes of orange-pink.
- 354. BLACK KNIGHT**—Glossy deep maroon, open form.
- 355. BLANCHE BURPEE**—Pure white.
- 356. BLANCHE FERRY**—Standard bright crimson-rose; wings white, tinged with pink.
- 357. BOLTON'S PINK**—Orange or salmon-pink, veined with rose.
- 358. LORD NELSON**—A darker strain of navy blue; very dark.
- 359. COCCINEA**—Pure cerise; self-color.
- 360. COUNTLESS OF RADNOR**—Light mauve standard; lavender wings.
- 361. DAINTY**—Pure white, edged with light pink and standard, and wings almost true white, with pink edges.
- 362. DUKE OF WESTMINSTER**—Standard clear purple; wings violet.
- 363. EMILY HENDERSON**—Pure white; a vigorous grower.
- 364. HENRY ECKFORD**—Almost clear salmon; self-color; nearest approach to orange sweet peas.
- 365. HELEN PIERCE**—Pure white; veined, mottled and marbled with bright blue.
- 366. HON. MRS. E. KENYON**—Primrose; large semi-hooded form.
- 367. ROMOLO PIAZZANI**—Rose-purple; large flowers of best type.
- 368. KATHERINE TRACY**—Standard soft pink; wings lighter tone; almost self-color.
- 369. KING EDWARD VII**—Bright red or crimson scarlet.
- 370. LOTTIE ECKFORD**—White, shaded lilac and blue.
- 371. LOVELY**—Standard, and wings deep pink, shading lighter at edges.
- 372. MRS. COLLIER**—Rich primrose tint; large flowers and long stems.
- 373. DOROTHY ECKFORD**—White; large bell-shaped flowers.
- 374. PRIMA DONNA**—Fine pink; self-colored.
- 375. QUEEN OF SPAIN**—Soft buff pink, with curled standards.
- 376. SALOFIAN**—Bright red or crimson-scarlet.
- 391. LADY GRISEL HAMILTON**—Soft lavender, tinted with mauve in standard.



Early and Winter Flowering Sweet Peas

This distinctive class of Sweet Peas is valued for earliness of bloom when grown out of doors, and for their winter flowering qualities when grown in greenhouses. They begin blooming according to the variety—in from 8 to 12 weeks from planting seed. Price, 15c. per oz.; $\frac{1}{4}$ lb., 50c.; 1 lb., \$1.50. Postage, 6c. per Pound Extra.

- 380. BURPEE'S EARLIEST WHITE**—Very early; hooded form.
- 381. CHRISTMAS PINK**—Pink and white.
- 382. EARLIEST OF ALL**—Bright rose standard, with white wings.
- 383. EX. EY. BLANCHE FERRY**—Pink and white.
- 384. FLORENCE DENZER**—White.
- 385. MRS. ALEX. WALLACE**—Pinkish lavender; very early.
- 386. MRS. E. WILDE**—Rosy crimson.
- 387. MRS. F. J. DOLANSKY**—Pink.
- 388. MONT BLANC**—White; early; open form.
- 389. WATCHUNG**—White.
- 390. MRS. CHAS. H. TOTTY**—Lavender.

PLANT DEPARTMENT

We do not deliver plants free by express; the purchaser pays the charges, and unless instructed to the contrary, orders will be forwarded by express.
Orders for plants will be forwarded at the proper time for planting, according to variety.
Cash must accompany all orders. We do not ship plants C. O. D.

VEGETABLE PLANTS

FROM SEED BED. SPECIAL PRICE IN QUANTITY.

BEET—Eclipse, Crosby, Egyptian. 40c. per 100; \$2.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail. Special prices on 10,000 lots.

BRUSSELS SPROUTS—50c. per 100; \$3.50 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

CABBAGE—All the leading varieties. From December 1 to May 1, frame grown. 50c. per 100; \$2.00 per 500; \$4.00 per 1000. Field grown from May 1 to December 1. 30c. per 100; \$1.25 per 500; \$1.75 per 1000. By express, not prepaid. Add 10c. per 100 if by mail. Special prices in 10,000 lots.

CAULIFLOWER—Early Snowball. 75c. per 100; \$4.50 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

CELERY—All the leading varieties. 50c. per 100; \$1.50 per 500; \$3.00 per 1000. By express, not prepaid. Add 10c. if by mail. Special prices in 10,000 lots.

EGG PLANT—Imp. Baltimore from seed bed. 50c. per 100; \$4.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

SAGE—Holt's Mammoth, for flavoring. From 2-in. pots, 10c. each; \$1.00 per dozen. By express, not prepaid.

KOHLRABI—Early White Vienna. 50c. per 100; \$3.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

LETTUCE—Ready at all seasons. All the leading varieties. 30c. per 100; \$1.25 per 500; \$2.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail. Special prices in large quantities.

PARSLEY—For fall or spring planting. Large, strong roots. \$1.00 per 100; \$4.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

PEPPER—All leading varieties at 20c. per doz.; 50c. per 100; \$4.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

SWEET POTATO—50c. per 100; \$2.00 per 500; \$4.00 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

TOMATO—Ready April 1. Seed bed plants of Bonnie Best, Earliana, Chalk's Jewel, Dwarf Champion, Ponderosa and Main Crop Varieties at 50c. per 100; \$2.25 per 500; \$4.00 per 1000. Main crop varieties, Field Grown, ready May 1. 40c. per 100; \$1.50 per 500; \$2.25 per 1000. By express, not prepaid. Add 10c. per 100 if by mail.

GREENHOUSE PLANTS

FOR POTTING AND BEDDING. FROM 2- or 3-in. POTS.

ABUTILONS

(Flowering Maple.)

ECLIPSE—In great demand for baskets and vases. Leaves variegated yellow and green, having bright yellow flowers, with crimson throat.

SAVITZII—A beautiful bedding plant; variegated white and green foliage. 10c. Each. By Mail, Add 5c. Each Extra.

ACALYPHA

MACAFRANA—A handsome variegated foliage bedding plant, which may be used in connection with Coleus, Crotons or other foliage plants for sub-tropical bedding. 10c. Each. By Mail, Add 5c. Each Extra.

SWEET

ALYSSUM

Dwarf Double—for pot plants. Giant Double—for cutting. 10c. Each. By Mail, Add 5c. Each Extra.

AGERATUM

DWARF WHITE.

INIMITABLE—Giant Blue.

LITTLE GEM—Dwarf Blue.

PRINCESS PAULINE—Sky Blue, white centre.

10c. Each; \$1.00 per Dozen. By Mail, add 5c. Each Extra.

BEGONIA

VERNON—Pink bedding.

VERNON—White bedding.

LUMINOSA—Red flower and foliage.

GLOIRE DE CHATAINE—Dwarf; flowers rose color; hardy for pot or bedding.

GRACILIS (Prima Donna)—Clear Neyron rose.

GRACILIS (Pitzeri Triumph)—Pure white; free flowering.

10c. Each; \$1.00 per Dozen. By Mail, Add 5c. Each Extra.



ALTERNANTHERA

A beautiful class of dwarf plants growing only 6 inches high, admirably adapted for forming letters, ribbon lines, edgings or bed.

AUREA NANA—Yellow, compact.

AMOENA ROSEA—Rose and carmine.

BRILLIANTISSIMUS—Rich carmine.

SEYBOLDI—Broad leaf, yellow.

VERSICOLOR—Crimson, chocolate and green.

PROSPECT PARK BEDDER—Dark chocolate red.

CARROLL PARK BEDDER—Dwarf red. 10c. Each; \$1.00 per Dozen; \$6.00 per 100.

By Express, Not Prepaid.

ASPARAGUS (Sprengerii)—

ASPARAGUS (Plumosa)—

Potted plants, 10c. each. By mail, add 5c. each extra.

CINERARIA

DUSTY MILLER

MARITIMA (Candidissima)—Silver foliage bedding plants. 10c. Each; \$1.00 per Dozen; \$6.00 per 100. By Mail, Add 5c.

Each Extra. By Express, Not Prepaid.

CUPHEA PLATYCENTRA

CIGAR PLANT

10c. Each. By Mail, Add 5c. Each Extra.

CANNAS

Few flowering plants combine so many fine qualities as the modern Canna—a race of subtropical bulbous plants, of most easy culture, rapid reproduction and good keeping qualities. The floral world has been astonished by their luxuriance of foliage and gracefulness of bloom, which is of immense size, borne in large masses and trusses, combining in color the brightest and richest shades of yellow, red, orange and scarlet, bringing them to the front as the finest ornamental plant in commerce.

SELECT VARIETIES

FROM 3-IN. POTS. READY APRIL 1st.
POTTED PLANTS ONLY.

BENVOLIO—Brilliant rich red, dark green foliage, showing tinge of bronze; dwarf grower. 25c. each.

FIRE BIRD—Glistening bright scarlet; large flowers. 75c. each.

GONZABO—Brilliant carmine, waxy petals; dark bronzy green foliage; 3½ ft. 30c. each.

GUSTAV GUMPPER—Ideal yellow bedding canna; 3½ ft. 25c. each.

HORATIO—Waxy flowers of bright golden yellow; crimson scarlet edged in yellow throat, spotted red; dwarf robust green foliage. 25c. each.

JESSICA—Rose-carmine flowers; dark bronzy green foliage; 3½ ft. 25c. each.

KING HUMBERT—The broadest-leaved Canna; bronze, with orange-scarlet flowers; 4 to 5 ft. 15c. each.

LAFFEW—Medium to large orange-scarlet flowers, with dark metallic green, overlaid with bronze sheen foliage; dwarf sturdy grower. 30c. each.

MAROS—Best white-flowering; creamy white flowers produced on stems, well above foliage. 20c. each.

MERCUTIA—Intense vermilion-scarlet, shading to pink at base of petals; clear rich green foliage; 3 ft. 25c. each.

MRS. ALFRED CONARD—Salmon-pink flowers of largest size; rich green foliage; 4 ft. 15c. each.

MRS. KATE GRAY—Rich orange-scarlet flowers, six inches across; flaked with yellow tints. 5 ft. 15c. each.

ROSEA GIGANTEA—Deep red rose-pink flowers of giant size; green foliage; 4 ft. 15c. each.

UNCLE SAM—Clear deep orange flowers, borne in large clusters; rich green foliage; 6 ft. 15c. each.

WM. SAUNDERS—Bright scarlet flowers; in great clusters; 4 ft. 15c. each.

WYOMING—Orange-scarlet, with bronze foliage; 4½ ft. 15c. each.

IF WANTED BY MAIL, ADD 5c. EACH EXTRA.

STANDARD BEDDING VARIETIES

(READY APRIL 1st.)

ALPHONSE BOUVIER—Crimson; 5 ft.

FLORENCE VAUGHAN—Green foliage; rich golden yellow, dotted red; 5 ft.

GLADIATOR—Bright yellow, spotted crimson, green foliage; 5 ft.

J. D. EISELE—Bright vermilion scarlet; 3½ ft.

JEAN TISSOT—Intense brilliant vermilion, with orange shading; green foliage, growing about 6 ft. high.

LOUISIANA—Large vivid scarlet flowers, with glossy green foliage; 7 ft.

MME. CROZY—Rich orange-scarlet flowers, edged with bright golden yellow; 4 ft.

PRESIDENT MYERS—Rich cherry-carmine flowers; bronze foliage; 4 ft.

QUEEN CHARLOTTE—Rich pomegranate red, bordered bright golden yellow; 3½ ft.

RICHARD WALLIS—Free-flowering yellow, with green foliage; 4½ ft.

RUBIN—Bright scarlet flowers, dark foliage; 4 ft.

SOUV. DE ANTOINE CROZY—Beautiful red, bordered with golden yellow; 3½ ft.

VENUS—Gay rosy pink, with mottled border of creamy white; 4 ft.

Potted Plants, 10c. Each. By Express, not Prepaid, \$1.00 per Dozen. If Wanted by Mail, Add 5c. Each for Postage.

Dry Roots of the Above at 5c. Each, 50c. per Dozen. By Parcel Post, 10c. per Dozen Extra.

MIXED CANNA ROOTS IN SPLENDID VARIETY

OUR SELECTION.

5c. Each; per Dozen, 35c.; per 100, \$2.75. By Express not Prepaid. By Parcel Post, 10c. per Dozen Extra.

FOLIAGE CANNAS

Roots of large growing Foliage Cannas with bronze leaf. The above make beautiful foliage, but do not bloom. Dormant roots at 5c. each. 35c. per dozen. By parcel post, 10c. per dozen extra.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



HARDY POMPON CHRYSANTHEMUMS

PLANTS FROM 2-IN. POTS.

Large-Flowering or Aster Varieties

- AUSTIN**—Lilac rose; cut petals.
BOHEMIA—Fine pure white.
BRADSHAW—Silver pink; large full flowers.
CUMBERLAND—Long stemmed, yellow.
ELDORADO—Bright golden.
ELEANOR—Dwarf white.
EXCELSIOR—Bright-orange yellow.
LELIA—Bright brick red.
LILLIAN DOTY—Finest large-flowered pink of the Pompon family.
MISS EMMA—Golden bronze.
QUEEN OF WHITES—Fine creamy white; long stems.
REBECCA—Orange yellow.
SALEM—Silver rose; long-quilled petals.
SIR MICHAEL—Lemon yellow.
ST. ELMO—Splendid white.
SYLVIA—Large flowers; scarlet bronze.
TRIUMPH D'OR—Rich golden yellow.
URITH—Bronze, tipped yellow; large flowers.
VIOLA—Rich violet rose.
WINDLESS—Rich orange yellow; large flowers.

Single-Flowered

- AARON**—Bronze scarlet.
GARZA—White, with quilled petals.
LITTLE GEORGE—Small flowers; violet red.
PINK DAISY—Light pink.
PROVIDENCE—Early white.
ROSY MORN—Silver pink.
WALLIS—Pure yellow.

Anemone Varieties

- BARNEY**—Golden bronze.
EARL—Pearl white, silver-rose centre; dwarf.
EVA—Rose pink.
FURNESSIA—Silver white.
LADY OLIVIA—Beautiful white.
MATILDA—White.
MAY SUYDAN—Bronze.
MYERS PERFECTION—Fine pure white; tall grower.
OBAN—Silver pink; fine for cut flowers.
PALMYRA—Silver pink.
PRINCE DANILO—Pure white.

Price, 10c. Each; per Dozen, 75c.; per 100, \$5.00.
 By Express, Not Prepaid.

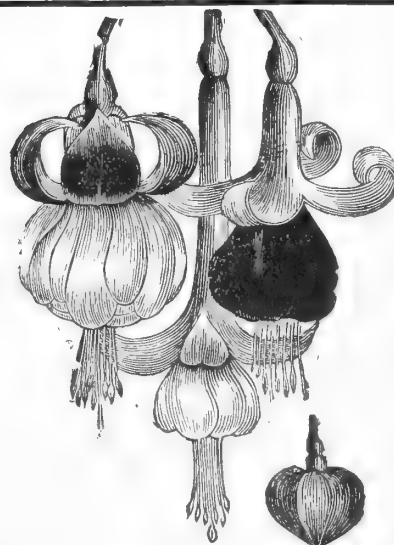
Small-Flowered or Button Varieties

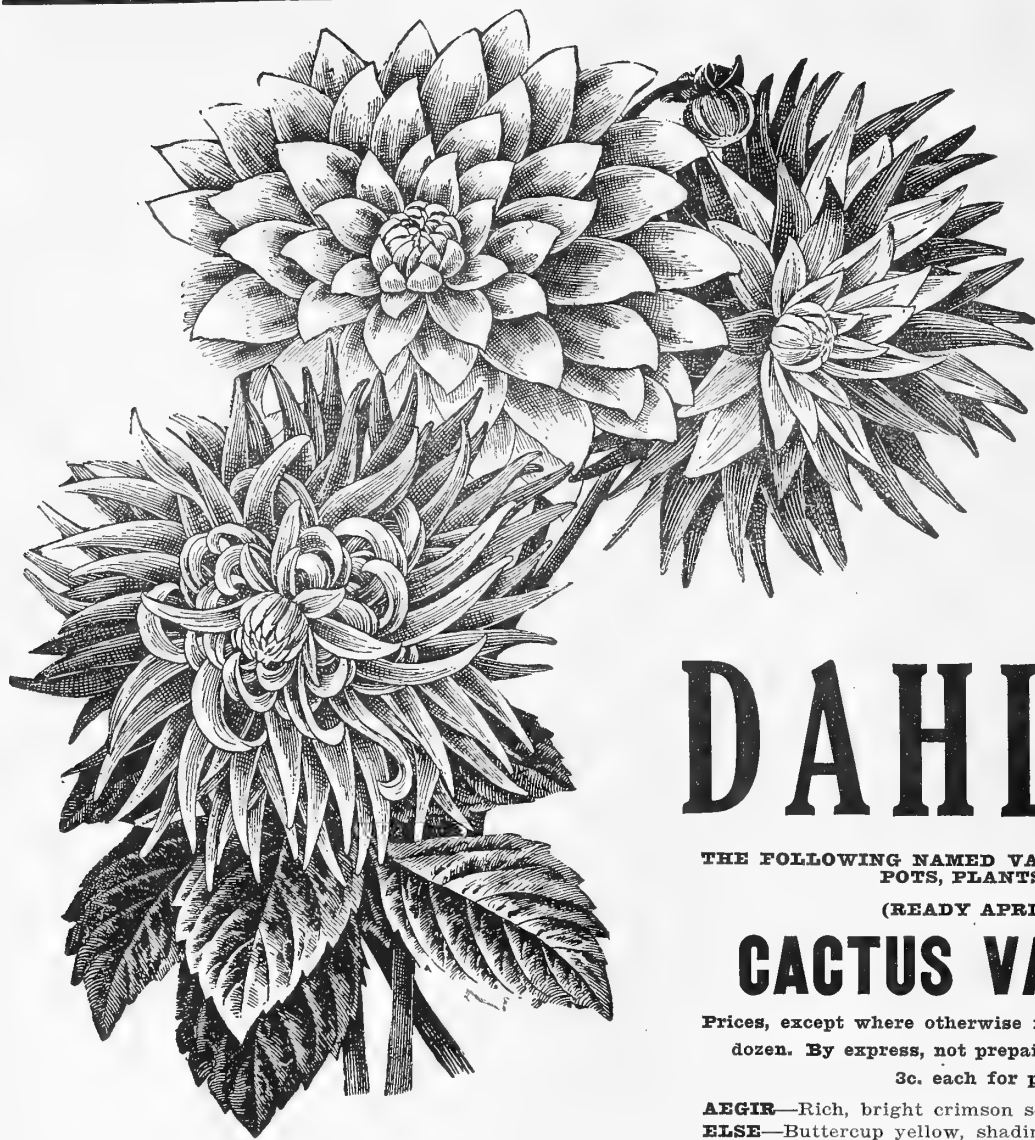
- BABY**—Smallest golden yellow.
CERISE QUEEN—Clear pink.
ELEGANTA—Deep rose, shaded white.
FASHION—Maize yellow; fine for cut flowers.
GOLDEN CLIMAX—Orange yellow.
GOLDEN PHEASANT—Deep orange yellow.
INEZ—Scarlet bronze.
MARY—Pearl white, flushed pink.
MEG—Wine red, shading to garnet.
JAMES BOONE—Pure white.
RITA—Bright pink.
TENNYSON—Pure yellow, for cut flowers.

FUCHSIAS

10c. each; \$1.00 per doz., by express, not prepaid.

- COLE DE AZUR**—Large size, bluish purple corolla, sepals brilliant rose.
ELEGANA—Sepals white, corolla clear rose.
JOSEPH ROZAIN—Double purple.
PAOLA RADELLI—Deep violet, masculated rose.
PHENOMENAL—Large double deep violet.
SPECIOSA—Single pink.
TORPILLEUR—Single white.
WHITE BEAUTY—Light pink sepals, white corolla.





FANCY VARIETIES

LE GRAND MANITOU—White ground color, prettily spotted, striped and blotched with deep reddish violet. 15c. each.

PROF. MANSFIELD—Rich yellow, clear white, tips rosy red. 10c. each.

COLLARETTE DAHLIAS

Price, 10c. each. \$1.00 per dozen. By express, not prepaid.

GALLIA—Bright Rose, suffused and tipped scarlet, passing to sulphur yellow.

PRINCE GALITZEN—Rich crimson, white-tipped collarette.

DAHLIAS

THE FOLLOWING NAMED VARIETIES FROM 3-INCH POTS, PLANTS ONLY.

(READY APRIL 15th.)

CACTUS VARIETIES

Prices, except where otherwise noted, 10c. each, \$1.00 per dozen. By express, not prepaid. By parcel post, add 3c. each for postage.

AEGIR—Rich, bright crimson scarlet.

ELSE—Buttercup yellow, shading to amber.

FIREWORKS—Ground color golden yellow, striped and blotched, with oriental red.

FLORA—Large pure white.

GENERAL BULLER—Dark velvety maroon, tipped white.

GENOVEVA—Fine large pure yellow; fine for cutting, 25c. each.

GONDOLA—Clear rosy pink.

JULIET—Rosy pink, shading to white centre.

MORNING GLOW—Deep primrose.

MRS. CHAS. SCOTT—Old gold, shaded apricot.

MRS. CLINTON—Deep amber, gradually shading to rosy scarlet.

PRIMA DONNA—Large flowers, with tubular twisted incurved petals; centre creamy white, outer delicate mauve pink. 50c. each.

PRINCE OF YELLOWS—Rich canary yellow; best for cutting.

RENE CAYEAUX—Rich geranium red.

REV. J. E. JAMISON—Incurved petals of bright mauve pink, salmon at base.

STANDARD BEARER—Rich, fiery red.

THOS. PARKIN—Bright terra-cotta red. 20c. each.

THURINGIA—Light, fiery red.

VOLKER—Clear lemon yellow.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

DAHLIAS—Continued.

Decorative Varieties

Prices, except where otherwise noted, 10c. each.; \$1.00 per dozen.

By express, not prepaid. By parcel post, add 3c. each for postage.

CATHERINE DUER—Iridescent red; favorite for cutting.

CLEOPATRA—Rich shade of velvety crimson maroon.

DELICE—Glowing rose-pink; good for cutting.

GOLDEN WEST—Best yellow; fine for cutting. 25c. each.

JACK ROSE—Rich velvety crimson; ideal for cutting.

METEOR—Mottled red rose, and buttercup yellow. 25c. each.

MISS MINNIE McCULLOUGH—Soft yellow, overlaid with bronze. 25c. each.

MME. VAN DEN DEYL—Silver pink.

MRS. J. GARDNER CASSATT—Rose colored, with grand stems. 25c. each.

ORANGE KING—Rich glowing orange.

PAPA CHARMANT—Bright glowing velvet maroon; large flowers. 30c. each.

PERLE DE LYON—Pure white. 50c. each.

PRINCESS VICTORIA LOUISE—Deep rose pink.

QUEEN MARY—Fine rose pink. Free bloomer. 25c. each.

ROYAL PURPLE—Solid purple. Sport of Le Grand Manitou. 15c. each.

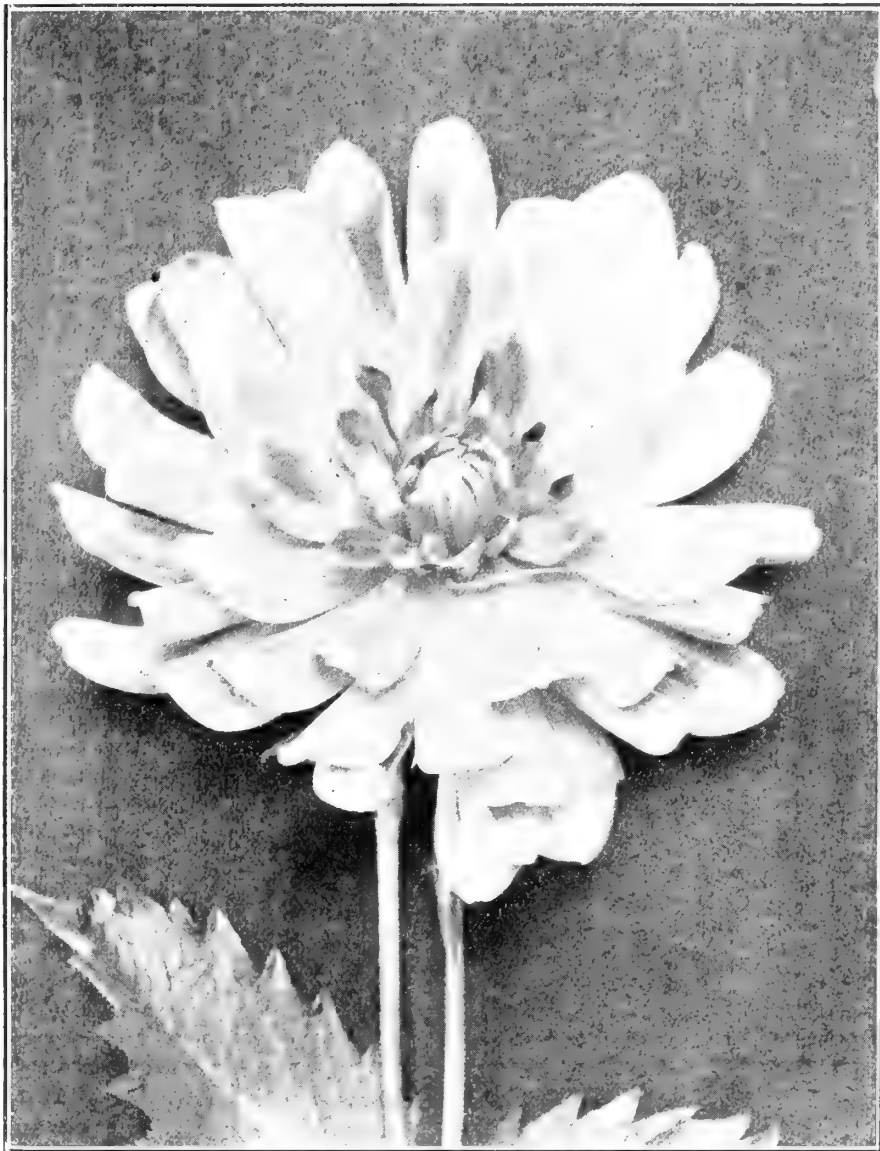
SEBASTOPOL—Rich bright orange flowers; borne freely on long stems; fine for cutting. 30c. each.

SOUV. DE G. DOUZON—Enormous orange-red flowers.

SYLVIA—Rich pink, white centre.

VIRGINIA MAULE—Delicate tint of shell pink.

YELLOW DUKE—Pure canary yellow.



SINGLE VARIETIES

Price, 10c. each. \$1.00 per dozen. By express, not prepaid.

ALBA SUPERBA—Large pure white.

AMI BARILLET—Scarlet-crimson flowers, dark bronze foliage.

ST. GEORGE—Large pure yellow.

CENTURY VARIETIES

Price, 10c. each. \$1.00 per dozen. By express, not prepaid.

BIG CHIEF—Brilliant cherry-red, margined rich velvety maroon.

FRINGED TWENTIETH CENTURY—Similar to twentieth century, having petals deeply cleft.

ROSE PINK CENTURY—Clear rose pink; immense size.

SCARLET CENTURY—Bright scarlet.

SENSATION, DOUBLE—Vivid scarlet, heavily tipped white.

POMPON VARIETIES

Price, 10c. each. \$1.00 per dozen. By express, not prepaid.

By parcel post, add 3c. each for postage.

ALEWINE—Flesh, edged lavender pink.

CRIMSON QUEEN—Deep crimson, shaded purple.

INDIAN CHIEF—Crimson.

LITTLE BEAUTY—Delicate shrimp pink.

LITTLE HELEN—Pure white.

LITTLE HERMAN—Deep red, tipped white.

LITTLE MAY—Bright lemon yellow.

ROSALIE—Yellow edged crimson.

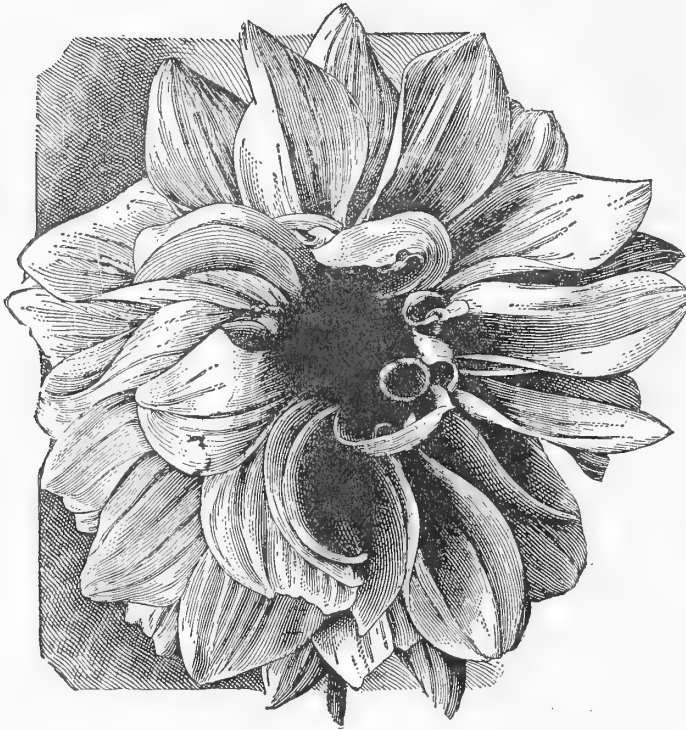
DAHLIA ROOTS

(OUR SELECTION.)

In separate colors, not named varieties. Large clumps, 10c. each; \$1.00 per dozen. By express, not prepaid.

IF BY MAIL, ADD 3 CENTS EACH FOR POSTAGE.

DAHLIAS—Continued



DAHLIA ROOTS

In separate colors, not named varieties. Large clumps, 10c. each; \$1.00 per dozen; by express, not prepaid.

HELIOTROPE

- CHIEFTAIN**—Lilac; large trusses, sweet-scented.
MME. DE BLONAY—Large trusses, nearly pure white.
MME. BRUANT—Very dark purple.

10c. each; \$1.00 per dozen, by express, not prepaid.

HARDY ENGLISH IVY

LARGE-LEAVED VARIETY.
 10c. each; \$1.00 per dozen.

LANTANAS

An old favorite for bedding or individual plant purposes, but on account of the great improvement in shades in the last few years they are becoming more and more popular.

- E. BAYARD**—Bright orange-red and yellow.
CRAIGI—Bright orange, fading to rich crimson.
FRANCINE—Sulphur yellow and deep pink.
HELVIA—Pale canary, shading to deep yellow centre.
JAVOI—Tall; clear pure white, yellow eye.
LA PLUIE D'OR—Pure yellow; dwarf growth.
LYRE—Pure white, with yellow centre; large flowering.

Price, 10c. each; \$1.00 per dozen; by express, not prepaid.

THE FOLLOWING NAMED VARIETIES SUPPLIED IN
 POTTED PLANTS ONLY. (Ready April 15.)

PEONY-FLOWERED VARIETIES

Prices, except where otherwise noted, 10c. each; \$1.00 per dozen; by express, not prepaid. By parcel post, add 3c. each for postage.

- GEISHA**—Scarlet and gold, with yellow centre, deepening to scarlet at centre. 25c. each.
GERMANIA—Dazzling crimson.
GLOIRE DE BAAEN—Delicate flesh pink.
HON. R. L. BORDEN—Rich golden bronze. 25c. each.
MRS. CHAS. L. SEYBOLD—Distinct bright crimson-pink, each petal tipped white.
PRAIRIE FIRE—Rich scarlet.
QUEEN WILHELMINA—Fine pure white.
SETTING SUN—Deep rich maroon, tipped scarlet. 50c. each.

SHOW VARIETIES

Prices, 10c. each; \$1.00 per dozen. By express, not prepaid. By parcel post, add 3c. each for postage.

- BLACK DIAMOND**—Purple garnet, shading black.
CHAS. LANIER—Yellow amber, shaded buff.
CLIENT—Deep velvety crimson.
ELECTRIC—Soft magenta rose.
ETHEL MAULE—Pure white, tinged pale lavender in centre.
GLOIRE DE LYON—Fine large pure white.
MAGNIFICENT—Pure yellow; dwarf; splendid bedder.
MARGUERITE BRUANT—Pure white dwarf and free.
QUEEN OF YELLOWS—Rich canary yellow; best for cutting.
RUBY QUEEN—Clear ruby red, richly shaded.
SUSAN—Soft-shell pink.
YELLOW LIVONII—Soft lemon yellow.

LEMON VERBENA

10c. each; \$1.00 per dozen; by express, not prepaid.

LOBELIA

CRYSTAL PALACE GEM—10c. each; \$1.00 per dozen; by express, not prepaid.

SENECIO SCANDENS

PARLOR IVY—For vases, baskets and boxes. 10c. each.

VINCA (Variegated)

10c. each.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

GERANIUMS

NEW IVY-LEAVED VARIETIES

ALPHA—Foliage, finely denticulated; centre of leaf greenish maize, with broad dark zone, edged golden yellow; free-flowering, of rich shade of scarlet red; single; medium sized.

JAMES ATFIELD—Hybrid; extra large double flowers; of pretty shade of soft pink.

JAMES T. HAMILTON—Hybrid; intense carmine crimson; good for potting or bedding.

L'ELEGANTA—Standard variety for basket plant, with rich green ivy-shaped leaves, edged with pure white and delicate lilac-white flowers.

SOUVE DE CHAS. TURNER—Deep pink, feathered maroon on upper petals.

TOPAZ—An exquisite variety; slightly denticulated foliage; centre of leaf deep moss green, with broad zone edged lemon yellow; vigorous plant.

Price, 20c. each; \$2.00 per dozen. By express, not prepaid.

STANDARD IVY-LEAVED VARIETIES

ALLIANCE—Delicate white lilac.
COL. BADEN POWELL—Pearl white.
JOSEPH WARREN—Lovely shade of rich purple.

MME. THIBAUT—Clear rosy pink.
PIERRE CROZY—Bright scarlet flowers.
SCARLET CROUSE—Magnificent shade of carmine.

Price, 10c. each; \$1.00 per dozen. By express, not prepaid.



STANDARD DOUBLE VARIETIES

COL. THOMAS—Deep cardinal red.
FLEUVE BLANC—Pure white.
LA PILOTE—Brilliant scarlet; a favorite bedder.

M. A. ROSELEUR—Deep rose pink.
MARQUISE DE CASTELLANE—Soft red crimson.

MISS F. PERKINS—Charming shade of deep rose.

MISS KENDAL—Dark carmine red.
MME. RECAMIER—Pure white.
ORNELLA—Deep rich scarlet.

S. A. NUTT—Dark, velvety crimson.
SCARLET BEDDER—A bright scarlet bedding variety; free bloomer.

Price, 10c. each; \$1.00 per dozen. By express, not prepaid.

STANDARD SINGLE VARIETIES

ADMIRATION—Bright rose-shrimp pink.
CLAIRE ALBAINE—Pure white color.

EMMANUEL ARENA—Deep rich dark velvety crimson.
FEUER—Brilliant crimson red.

GLOIRE DE ROUGE—Rich scarlet.
MRS. E. RAWSON—Scarlet flowers.

ROSALDA—Rich crimson pink.
SNOWDROP—Pure white.

THE SIRDAR—Intense scarlet.
TIFFIN—Rich glowing scarlet.

VICTOR GROSSET—Bright apricot-salmon.

Price, 10c. each; \$1.00 per dozen. By express, not prepaid.

VARIEGATED FOLIAGE VARIETIES

MOUNTAIN OF SNOW—Light green foliage; variegated white; single scarlet flowers.

MME. LANGUITH—Beautiful cherry-red; foliage broadly marked with silvery white.

MRS. POLLOCK—Green leaves, surrounded with margin of yellow; dark chocolate zone, orange-red flowers.

SILVER LEAF S. A. NUTT—Crimson-scarlet flowers; beautiful green foliage, edged white.

SOPHIE DUMARESQUE—Golden salmon-scarlet; healthy green foliage; margin of golden yellow.

Price, 10c. each; \$1.00 per dozen. By express, not prepaid.

SCENTED-LEAVED VARIETIES

BALM—Upper petals light lilac; lower petals dark.

CAPITATUM—Small leaf, rose-scented.

DALE PARK BEAUTY—Small, fragrant foliage.

FAIR ELLEN—Fragrant and beautiful; large oak-leaved foliage.

LADY MARY—Sweet-scented; rose-lake color.

LADY PLYMOUTH—Variegated rose geraniums; green and white foliage.

LEMON—Lemon-scented.

NUTMEG—Dwarf; bright green foliage; nutmeg scented.

ROSE—Rose-scented.

SCARLET UNIQUE—Dull scarlet; blotched maroon.

Price, 10c. each; \$1.00 per dozen. By express, not prepaid.

By Parcel Post, Add 3c. Each for Postage.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

PETUNIAS



When
ordering
by mail
add 4c.
each for
postage.

PETUNIA

For outdoor decoration or house culture few plants equal the Petunia in effectiveness. They commence flowering early, and continue a sheet of bloom throughout the whole season until killed by frost; easily cultivated, only requiring a good soil and sunny position.

ADA—Purple, edged and striped white.

ARTUS—Deep rose pink.

GURY—Lilac rose.

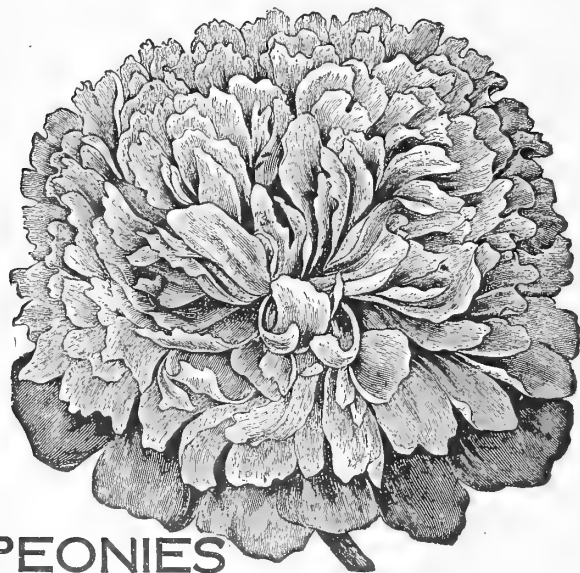
IRENE—Bright rose pink.

SNOWBALL—Pure white.

Single fringed mixed colors.

Double fringed mixed colors.

10c. each; \$1.00 per dozen. By express, not prepaid.



PEONIES

One of the most popular hardy plants grown for lawn and garden decoration. Double crimson, double white, double rose.

Price, 20c. each; 4 for 75c.; \$2.00 per dozen. Postage extra, 5c. each, if wanted by mail.

HARDY PHLOX CLUMPS

IN MIXED VARIETIES (NOT NAMED),
at 10c. each; \$1.00 per dozen. By express, not prepaid.

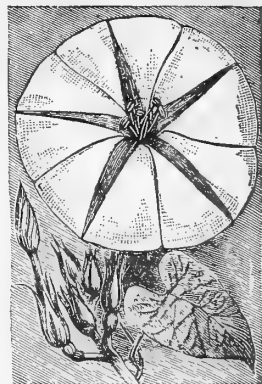
MOON VINES

White.

Blue Dawn Flower.

10c. Each; \$1.00 per Dozen.

By Express, not prepaid.



MOON FLOWER.

SCARLET SAGE

**CLARA BEDMAN,
OR BONFIRE**—

Dwarf. The fire-like appearance of the flowers standing erect among the green foliage gives the plant a most gorgeous appearance. 10c. each; \$1.00 per dozen; \$6.00 per 100.

SALVIA SPLENDENS—Tall, erect, green foliage. The well-known Salvia. 10c. each; \$1.00 per dozen; \$6.00 per 100.



COLEUS

10c. each; 75c. per doz.; \$4.00 per 100. By express, not prepaid.

ROB ROY—Dwarf; pinkish red, with crinkled edges.

CECIL BROWN—Running coleus; small foliage; dwarf, yellow and pink centre, bordered maroon and green.

DUNERIA—A magnificent Coleus; various shades of crimson, having very large leaves; showy bedder, and stands sun well.

GOLDEN BEDDER—A favorite yellow bedder.

HERO—Model dark Coleus; leaves almost black, pointed and scalloped.

SPOTTED GEM—Green, blotched with crimson and maroon; with light yellow centre.

VERSCHAFFELTII—Standard crimson variety.

YUCCA

A hardy evergreen plant, with long, narrow leaves that are bright green the whole year. The flowers are creamy white, bell-shaped, produced on long spikes 3 to 4 feet high. Fine, stately lawn plant.

FILAMENTOSA GLORIOSA (Adam's Needle).

Price, one-year old, 10c. each, postpaid. Extra large plants, 25c. each, by express, not prepaid.

CHOICEST ROSES

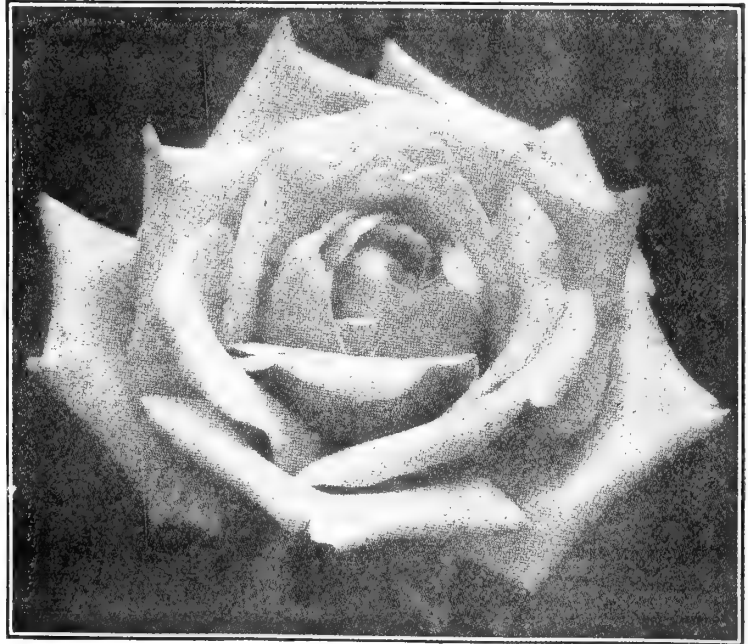
Our collection of Roses is second to none in the country, as we have eliminated all undesirable sorts and are offering nothing but those that make fine flowers and free bloomers.

DIRECTIONS FOR PLANTING

Directions for Planting: Plant in an open, airy situation unshaded by trees. Roses are very partial to clay loam, but will do well in any ordinary soil if enriched with bone. Dig the soil up thoroughly to the depth of 12 or 15 inches, as rose roots penetrate deeply. Bush Roses may be best arranged together in beds or borders. The size and shape of a bed, wherever planted, should be made to fit the situation. Although in warm localities, where plant growth is luxurious, a greater interval is necessary, 18 inches apart is generally accepted as the proper spacing. On this basis, beds $4\frac{1}{2}$ feet wide will take three rows, and if six feet long, will require a dozen plants. Or a dozen plants would occupy a 3-foot bed with two rows nine feet long. Delightful arrangements in odd shapes, and by combination of various classes, may be worked out according to the individual planter's fancy and ingenuity.

PINK MAMAN COCHET (Tea).

Such beauty and exquisite form as is possessed by this variety is well nigh marvelous, and cannot be seen in any other Rose we know. The buds are beautiful; large, full and firm and elegantly pointed; as they expand they show great depth and richness. Flowers superb when open, extra large, perfectly double and of splendid substance. Perfectly hardy in all sections of the country. The color is clear, rich pink, changing to silvery-rose.



RADIANCE

A brilliant rosy-carmine, displaying beautiful rich and opaline-pink tints in the open flower. The form is fine, largest size and full, with cupped petals. It blooms constantly and is delightfully fragrant. This is a superior Rose.

WHITE MAMAN COCHET.

Or *Priscilla*—The Charming New White Tea Rose.

It belongs to the Tea class, being a child of that grandest of bedding or outdoor Roses, Maman Cochet, and is hardy in Northern Ohio with slight protection in winter. Its habit is exceedingly strong and upright, like its parent, and it possesses the same large, beautiful healthy foliage, and is a most profuse and constant bloomer. The flowers are of enormous size, remarkably round and full; pure, clear, snowy-white throughout, and are delightfully tea-scented. It is by far the finest and most reliable white bedding Rose yet produced.

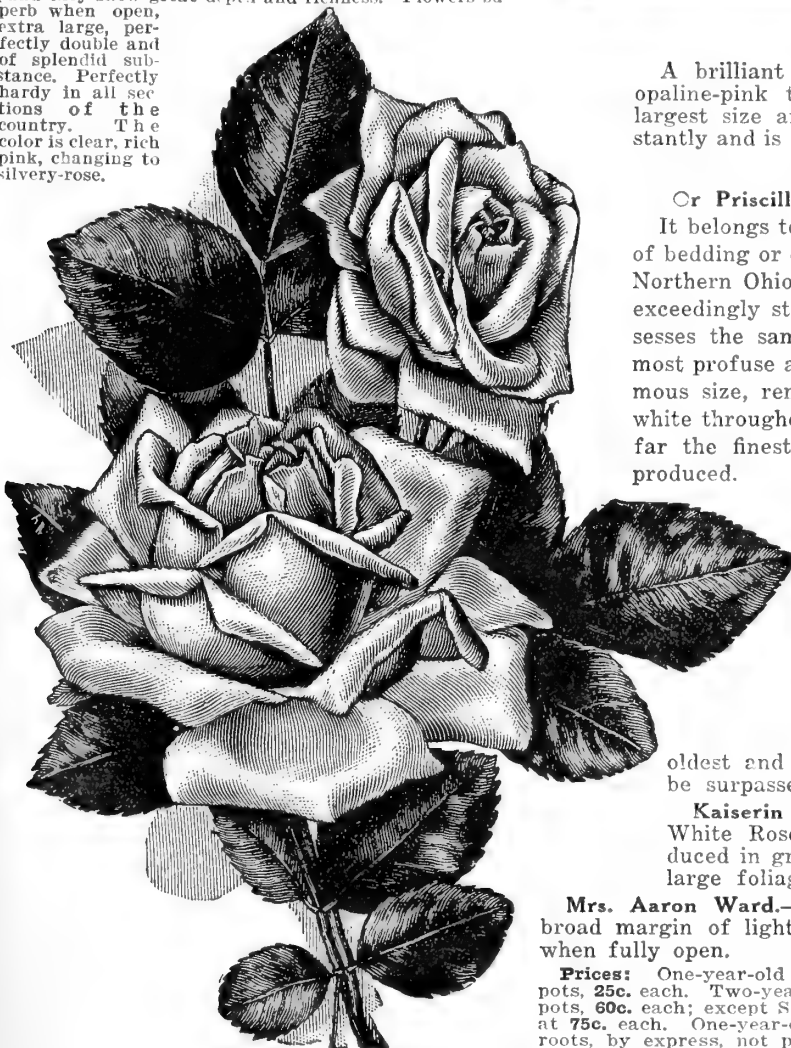
William. R. Smith.—A vigorous grower, excellent in quality, bountiful in bloom. It will thrive abundantly in almost any location. The flowers are large, full and double, most exquisite in form, and the petals are so firm they look like wax, softly curled. Color cream with flesh tint tips, buff yellow base, and the center and heart of pink. Perfect buds. The flowers are borne on long stems. Fragrance delightful. Blooms profusely.

Safrano.—Saffron and apricot; one of the oldest and best Roses; in the bud shape it can hardly be surpassed.

Kaiserin Augusta Victoria.—One of the most desirable White Roses for summer bedding; large flowers, produced in great profusion; a strong, healthy grower, with large foliage.

Mrs. Aaron Ward.—In bud a deep Indian yellow, opening to broad margin of light yellow on inner edge, and to light yellow when fully open.

Prices: One-year-old plants, from 3-in. pots, 15c. each; from 4-in. pots, 25c. each. Two-year-old plants, from 5-in. pots, 50c. each; from 6-in. pots, 60c. each; except Silver Moon, which are in two-year-old roots, only, at 75c. each. One-year-old roots, 10c. each, extra by mail. Two-year-old roots, by express, not prepaid.



ROSES—CONTINUED



CLIMBING ROSES

CRIMSON RAMBLER

This plant is of a very vigorous growth for covering buildings, trellises, etc. It cannot be excelled. One of the striking characteristics of this Rose is its remarkable color of the brightest crimson.

DOROTHY PERKINS

As hardy as Crimson Rambler and same habit of growth. Blooms are very double; the petals are very prettily rolled back and crinkled. The color is a most beautiful shell-pink.

LADY GAY

A most desirable variety of remarkable, vigorous growth, with flowers of a delicate cerise-pink, passing to soft-tinted pink. The effect of a plant in full bloom with the combination of the soft pink flowers, cherry-pink buds, and the deep green of the foliage is indeed charming.

MICROPHYLLA ALBA

A most vigorous grower; very hardy; bears semi-double flowers of a creamy-white. This is the Rose Keystone you hear so much about.

SILVER MOON

Flowers very large, four and a half inches and over in diameter, pure white in color, petals of great substance, beautifully cupped, forming a Clematis-like flower. The large bunch of yellow stamens in the centre adds to its attractiveness. These flowers are borne on strong stems, 12 to 18 inches long, and are delicately scented. The plant is a strong grower, with large, glossy bronze-green foliage.

TAUSENDSCHON

A German introduction which comes to us very highly recommended. It has the same vigorous habit of growth as the other Ramblers, almost devoid of thorns. It bears its flowers in immense clusters; color a soft pink when first opening, changing to a carmine rose on the reverse as they fully expand.

Prices: One-year-old Plants, from 3-in. pots, 15c. each; from 4-in. pots, 25c. each. Two-year-old Plants, from 5-in. pots, 50c. each; from 6-in. pots, 60c. each; except Silver Moon, which are in two-year-old roots only, at 75c. each. One-year-old roots, 10c. each; extra by mail. Two-year-old roots, by express, not prepaid.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

HELEN GOULD (Tea).

This is probably the most beautiful and satisfactory Rose for general planting ever introduced in America. The flowers are full and perfectly double, the buds beautifully made, long and pointed. The color of a ripe, red watermelon.

PINK KILLARNEY.

New, hardy, ever-blooming Irish Hybrid Tea Rose. Perfectly hardy; makes a strong, upright bush, with beautiful deep bronze green foliage. Is free-flowering, bearing its large, long-pointed buds and massive flowers on long, stiff, heavy shoots; and exquisite shade of deep, brilliant, sparkling shell-pink. Has a delightful tea fragrance.

WHITE KILLARNEY.

A sport from Killarney. Grand in every way. The white forcing Rose of the century. Superior to its parent in every particular. Words cannot describe its imposing grandeur. This is the greatest forcing Rose of any color or class. It is pure white in color, long in bud, of fine form; in fact, it is the one Rose par excellence. Planted in the garden it comes with a delicate pink tinge that if anything adds to its beauty. A great acquisition and a really wonderful Rose.

METEOR.

A velvety-red ever-blooming Rose, of the deepest glowing crimson. As fine as a Hybrid; flower of medium size, very double, and petals slightly recurving. A beautiful open Rose, a free bloomer, and promising well as a pot Rose. It has no tinge of violet or purple to mar its beauty. It promises to be a reliable ever-blooming Rose, free from bad qualities.

MY MARYLAND (Hybrid).

A new seedling, particularly good for winter forcing. The color is a soft salmon-pink, lighting up beautifully as the flowers expand. It is of splendid growth, sturdy and healthy, with large foliage, and delightfully perfumed.

LA FRANCE.

No variety can surpass it in delicate coloring—silvery-rose shades, with pink. It has a satin sheen over all its petals.

RICHMOND.

It is as free blooming as Bridesmaid or Golden Gate, and its scarlet-crimson flowers are borne on fine, long stems, which makes it specially valuable for cutting purposes. It is a strong competitor of Liberty and Meteor for forcing.





Bulbs for Spring Planting

CALADIUMS

ELEPHANT EAR.

The Caladium Esculentum is one of the handsomest of the ornamental-leaved plants. It will grow in any good garden soil. Plant where it will obtain plenty of water and an abundance of rich compost. Roots planted in the spring will make good growth in the summer, and in the fall store in a cellar. There is nothing so good as this Caladium for a grand bed of foliage in the garden.

FIRST SIZE BULBS (7 and 9 inches).—Each, 5c. By mail, 10c. 50c. per dozen.

LARGE BULBS (9 and 11 inches).—Each, 10c. By mail, 15c. 75c. per dozen.

EXTRA LARGE BULBS (11 inches and upwards).—Each, 15c. By mail, 20c. \$1.25 per dozen.

Prices per dozen are by express, not prepaid.

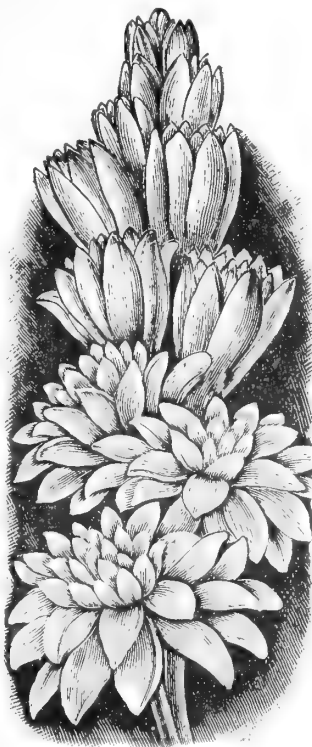
TUBEROSES

One of the most fragrant and popular of the summer flowering bulbs. May be started early in hotbeds or pots, or planted in open ground after the first day of May.

EXCELSIOR PEARL. Double white; dwarf. 5c. each. Dozen, 25c. By mail, 35c. per dozen. Per 100, \$1.00.

MADEIRA VINE ROOTS

Madeira Vine is a popular and favorite tuberous rooted climber of rapid growth, with dense and beautiful foliage. It grows everywhere, but does better in warm, sunny locations. By mail, each 5c.; dozen, 40c.



GLADIOLUS.

GLADIOLUS

Gladioli are the most attractive and useful for cut flowers of all summer-flowering bulbs. Use any good soil, hoe and loosen it to keep down the weeds, and with ordinary rainfalls they will flower by July 1. Plant at 10-day intervals for succession of blooms from July to October. In cutting Gladioli for the house, it is best to cut the spikes as soon as the first one or two lower flowers are open. The remainder will open in the house.

AMERICA—This is one of the finest Gladioli ever introduced, and ranks as the best sort for cutting, as well as all-around purposes. The color is a very beautiful soft pink, the coloring and texture resembling those of the Orchid. Each, 5c.; dozen, 50c.; 100, \$4.00.

AUGUSTA—A lovely and useful variety, pure white with blue anthers. 5c. each; 50c. per dozen; \$4.00 per 100.

EXTRA WHITE AND LIGHT VARIETIES—All first-class varieties, made up largely from best-named sorts. 5c. each; 50c. per dozen; \$3.50 per 100.

CHILDSI MIXED—Extra large and fine. 40c. per dozen; \$3.00 per 100.

LEMOINE'S (Mixed)—Extra fine. 35c. per dozen; \$2.75 per 100.

WHITE AND LIGHT COLORS—Dozen, 30c.; \$2.25 per 100.

MIXED (All Colors)—Dozen, 25c.; \$1.50 per 100. If wanted by mail, add 10c. per dozen for postage.

NURSERY DEPARTMENT

Before planting fruit trees, the soil (excepting new ground) should be made mellow by repeated plowing. When trees are received the root should be covered with a blanket, sack or straw until they reach their destination; the bundle should then be opened, and the trees separated from the moss in which they are packed; if the roots have become dry, from too long exposure, straw should be spread on the ground, the trees laid upon it, then covered entirely, roots and tops, with straw, and the whole well watered. In this condition they should remain for forty-eight hours, when they will be found as fresh as when first found in the nursery. Where only a few trees are to be planted, and the soil has not been sub-soiled, or where trees are to be planted in sod, then the holes ought to be at least four feet wide and eighteen to twenty inches deep, the sub-soil thrown back, and the holes filled up to a proper depth to receive the tree with fine top soil.

APPLES

Price, 30c. Each. \$3.00 per Dozen.

Should be planted thirty-five to forty feet apart, according to the nature of the soil and climate.

SUMMER APPLES.

AMERICAN SUMMER—Medium size, oblong, streaked and dotted red. Juicy and subacid. Last of July to August.

BENONI—Round, deep red with yellow flesh. Subacid. July.

EARLY HARVEST—Large, round and yellow; rich subacid flavor. June and July.

RED ASTRACHAN—Large, deep crimson fruit; rich and acid. July.

TETOPSKY—Russian variety and very hardy. Yellow, striped red; flesh white and acid. July.

YELLOW TRANSPARENT—Early and prolific; clear white skin, changing to yellow. July.

AUTUMN APPLES.

FALL PIPPIN—Very large, yellowish green, ripening to rich yellow. Excellent for cooking and market. September to December.

GRAVENSTEIN—Large, round, striped with red; tender, juicy and productive. August.

MAIDEN'S BLUSH—Large and smooth, shaded red or blush on clear yellow; subacid; rapid growing and large cropper. August to October.

OLDENBURG—Very hardy and abundant bearer; golden yellow, streaked crimson; valuable for market. August.

RAMBO—One of the best; smooth skin, streaked dull yellowish; red, rich, spicy subacid flavor. October to January.

SMALHOUSE—Large fruited, striped red on yellow ground; subacid; productive and good for culinary purposes. September to December.

WINTER APPLES.

AMERICAN GOLDEN RUSSET (Sheepnose)—Dull yellow, with very thin russet; spicy flavor; productive. October to January.

BELLFLOWER—Pale yellow, sometimes, with blush; juicy and acid; succeeds best in mountain country. October to January.

BALDWIN—Yellow, striped red and orange; juicy and subacid; good bearer. October to January.

BENTLEY'S SWEET—Pale yellowish green, shaded red and brown spotted; sweet flavor, good bearer and keeper. January to May.

BEN DAVIS—Abundant bearer of large striped fruit; juicy and subacid. Late keeper.

GRIMES GOLDEN—Yellow subacid; spicy and rich fruit. January to March.

JONATHAN—Small, with yellow skin, almost covered red; fine flavor; popular everywhere. November to April.

LANKFORD'S SEEDLING—Hardy and annual bearer, having fine dark striped fruit, of good keeping qualities.

MAMMOTH BLACK TWIG—Seedling of Winesap, but superior; large deep red; subacid; early and abundant bearer. December to April.

NORTHERN SPY—Large, striped and somewhat covered with dark crimson; slightly subacid; best in mountain regions. November to February.

PARADISE WINTER SWEET—Large, with smooth skin; dull green, when picked, with brownish blush; juicy and sweet. November to February.

SEEK-NO-FURTHER—Medium to large, slightly russeted, with dull red stripes; rich and spicy. November to February.

STAYMAN'S WINESAP—Superior to old Winesap; large, bright red, very productive, adapting itself to different soils. Good marketable variety.

YORK IMPERIAL or JOHNSON'S FINE WINTER—Medium size, skin greenish yellow, nearly covered with bright red; tender flesh, crisp and juicy; good bearer and keeper. February to April.

CRAB APPLES

Plant eight to ten feet apart.

Price, 30c. Each. \$3.00 per Dozen.

(By express not prepaid.)

GENERAL GRANT—Large, dark red.

HEWES VIRGINIA CRAB—Famous cider apple; yellowish and juicy.

RED SIBERIAN CRAB—Small, with scarlet cheek on waxen yellow ground; good for preserving.

YELLOW SIBERIAN CRAB—Resembles Red, except color is rich yellow; ornamental tree as well as good for preserving fruit.

PEARS

Should be planted twenty to twenty-five feet apart.

BARTLETT (Summer)—Yellow, with soft blush, fine-grained, sweet and juicy; good bearer. July and August.

Price, 60c. Each; \$6.50 per Dozen.

KOONCE (Summer)—Handsome fruit, good bearer, frost-proof and free from blight. Price, 50c. Each.

MANNING'S ELIZABETH (Summer)—Small, yellow fruit, with red cheek; fruit juicy and sweet. August. Price, 50c.

ANGOULEME (Autumn)—Very large, dull greenish yellow, streaked and spotted russet; flesh white, juicy and excellent flavor. September to November. Price, 50c.

SECKEL (Autumn)—Rich quality, hardy and productive. September and October. Price, 40c. each.

FLEMISH BEAUTY (Autumn)—Large, skin pale yellow, mostly covered with patches of russet, changing to reddish brown; hardy and abundant; gather early and ripen in house. September. Price, 50c. Each.

LAWRENCE (Winter)—Large yellow covered with brown dots; rich flavor; best early winter pear; hardy and productive. November to December. Price, 50c. each.

LINCOLN CORELESS (Winter)—No seed or core; late in season and good keeper; golden yellow mellow fruit, of rich flavor. Price, 50c. Each.

WINTER NELIS (Winter)—Medium size; dull russet; fine-grained, buttery and melting; rich aromatic flavor. November to December. Price, 50c. Each.

PEACHES

Should be planted sixteen to eighteen feet apart.

ALEXANDER—Early; flesh white and crimson skin; valuable for Southern market. July.

ARGYLE ELBERTA—Later than common Elberta; fruit finer color and better flavor; abundant producer.

BRANDYWINE—Yellow flesh; freestone. Last of August.

BUTLER'S LATE—Largest size; greenish white skin, with red cheek; very productive. First to middle of October.

BEER'S SMOCK—Larger than Smock and later; flesh firm and red next to seed; freestone. October 1st.

CARMAN—Large and round, with pale yellow skin, red blush on sunny side; white flesh, superior flavor. Middle of July.

CHAIR'S CHOICE—Large size; yellow, with red cheek; yellow flesh. Early September.

CHINESE CLING—Large fruit, with transparent cream-color skin, with marbling of red next to sun; creamy white flesh, juicy and rich flavor. Last of July.

CRAWFORD'S EARLY—Large, yellow and productive; flesh juicy and subacid; valuable for market; freestone. First of August.

CRAWFORD'S LATE—One of the best yellow Peaches for market; freestone. Middle of August.

HEATH CLING—Best of clingstone peaches, having luscious flavor, and keeping well after taken from tree; skin pale yellowish white, with tinge of red; flesh greenish white; juicy.

HEATH FREESTONE—Fruit large; skin white; juicy, with good flavor. Early September.

LEMON CLING—Lemon-shaped, light yellow color, ripening red in sun; firm yellow flesh, with subacid flavor; fine for preserving. Last of August.

LEMON FREE—Almost lemon-shaped and pale yellow when ripe; very hardy and exceedingly productive. September.

MOUNTAIN ROSE—A variety of great value for market; skin whitish, nearly covered with light and dark red; flesh white, slightly stained at stone; juicy and sweet; freestone.

OLDMIXON FREESTONE—Large, productive variety; yellowish white skin, with red cheek; white flesh, red at stone. Middle of August.

OLDMIXON CLINGSTONE—Yellowish white, dotted red; flesh pale white; melting and juicy. Middle of August.

SUSQUEHANNA—A great favorite; fruit of large size, having rich yellow skin, with red cheek; yellow flesh with rich flavor; freestone. August.

Price, 25c. Each. \$2.50 per Dozen.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

NURSERY DEPARTMENT--Continued

CHERRIES.

Should be planted sixteen to twenty feet apart.

HEART AND BIGARREAU—Succeeding best in soil not too wet or damp.

BLACK TARTARIAN—Fruit large, sweet and productive. June.

BLACK HEART—Above medium size; tender, juicy and rich. June.

ELTON—One of the finest fruits; of pale yellow, blotched red, juicy and rich. May and June.

GOV. WOOD—Large, light yellow shaded red; juicy and sweet. June.

MERCER—The finest heart cherry; dark red and juicy; good bearer.

DUKE AND MORELLO—These varieties will bear more moisture than above, though not as vigorous and upright, forming low-spreading heads, with acid or subacid fruit.

DYEHOUSE—Fruit early and subacid; bright red, darkening with sun; juicy.

ENGLISH MORELLO—Dark red, juicy and subacid. July.

EARLY RICHMOND—Red and juicy; acid flavor. Last of May. Productive.

MONTMORENCY—Large-fruited; of finest flavor, hardy and prolific.

Price, 60c. Each. \$6.00 per Dozen. By Express, not Prepaid.

PLUMS.

Should be planted fourteen to sixteen feet apart.

GERMAN PRUNE—Esteemed for drying and preserving; oval purple fruit, with firm green flesh; sweet, and separates from stone.

GREEN GAGE—Small yellowish-green; flesh pale green; juicy, sweet and rich; one of the best flavors, and separates from stone.

LOMBARD—Medium; skin delicate violet, dotted red; flesh deep yellow; juicy, hardy and productive.

SHROPSHIRE DAMSON—Large size, dark purple; esteemed for preserving. September.

ABUNDANCE (Japanese)—Lemon-yellow ground, over-spread with cherry; flesh yellow and juicy; subacid, with apricot flavor. August.

BURBANK (Japanese)—Large cherry-red, with slight lilac bloom; deep yellow flesh; very sweet. September 1st.

WILLARD—Earliest of all Japanese plums, and valuable for market; bright claret-red, with dots; white flesh; free-stone; early, and good keeper.

Price, 50c. Each. \$5.00 per Dozen. By Express, not Prepaid.

APRICOTS.

Apricots and nectarines should be planted twelve to fifteen feet apart. They will grow on any friable soil under good culture.

EARLY GOLDEN—Small, pale orange; flesh orange, juicy and sweet. Last of June.

HARRIS—Golden yellow; hardy and late bloomer; good bearer.

LARGE EARLY—Orange, with red cheek; sweet and juicy. Last of June.

50c. Each. \$5.00 per Dozen. By Express not Prepaid.

NECTARINES.

BOSTON—Large yellow, with red cheek.

ELRUGE—Greenish yellow, with red cheek.

PITMASON ORANGE—Rich orange-yellow, with brownish red cheek; yellow flesh, red at stone.

Price, 50c. Each. \$5.00 per Dozen. By Express, not Prepaid.

QUINCES.

Should be planted ten to twelve feet apart.

CHAMPION—Greenish yellow; large fruit.

MEECH'S PROLIFIC—Pale bright orange; large fruit; fragrant and good flavor.

ORANGE (Apple Quince)—Pale orange, ripening after mid-autumn; good keeper.

50c. Each. \$5.00 per Dozen. By Express not Prepaid.

GRAPES.

If planted for fastening to a trellis or arbor, should be twelve feet apart; if tied to stake, six feet apart.

Black. White. Red.

Concord. Empire State. Wyoming.

Moore's Early. Martha. Vergennes.

Worden. Niagara. Brighton.

20c. each. \$2.25 per dozen. Catawba.

Campbell's Early. 30c. each. \$3.00 per dozen. Ohio.

By express not prepaid.

RASPBERRIES.

Should be planted four feet part each way.

CUTHBERT—Strong and vigorous. Large fruit; very productive. Red.

RASPBERRIES—(Continued).

GREGG—Large firm fruit, sweet and rich. Strong grower and ripens late. Black and juicy.

KANSAS (Black Cap)—Firm and of fine quality. Its canes are of strong growth, entirely hardy and prolific, with tough, healthy, clean foliage. Season about second early—later than Souhegan, but earlier than Gregg.

MILLER RED—Fruit size of Cuthbert; bright red; does not fade; core very small. ripens very early; heavy bearer; best shipper.

75c. per dozen. \$4.00 per 100. By express not prepaid.

BLACKBERRIES.

Require the same kind of soil and treatment as raspberries, except that they should be planted in rows eight feet wide and four feet apart in the row.

ELDORADO—Berries very large; jet black; sweet, melting; no hard core; splendid keeper and shipper.

\$1.00 per dozen. \$6.00 per 100.

WILSON, JR.—One of the best earlies.

EARLY HARVEST—Good quality and productive. Very early.

ERIE—Black. Ripens early and very hardy.

LUCRETIA (Dewberry)—As early as Early Harvest; entirely hardy, healthy, strong grower and very productive.

75c. per doz. \$4.00 per 100. By express not prepaid.

GOOSEBERRIES.

Should be planted the same distance apart as currants. **DOWNING**—Seedling of Houghton. Large and juicy. Valuable for market.

HOUGHTON'S SEEDLING—Small fruit, but juicy and sweet. Valuable for market.

20c. Each. \$2.25 per Dozen.

INDUSTRY—Very large, excellent quality and an enormous bearer.

RED JACKET—Plant vigorous and healthy. Fruit rich dark red; oblong. Believed to be valuable.

35c. Each. \$4.00 per Dozen. By Express not Prepaid.

CURRANTS.

Currants should be planted on good soil, which must be kept rich and well worked in the garden, four feet apart.

CHERRY—Large red, fine variety and strong grower.

FAY'S PROLIFIC—Strong grower, wonderfully productive, and comes to bearing young; fruit large, bright red and good quality. 15c. Each. \$1.25 per Dozen.

VEGETABLE ROOTS.

ASPARAGUS ROOTS.

A saving of one to two years is effected by planting roots. A bed 12x40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family; 7260 roots will plant an acre. Select good, loamy soil, plow deep, put in good quantity of manure and 100 pounds of kainit to 1000 square feet of bed. Incorporate thoroughly, make a trench 8 inches deep, set plants 9 inches apart. In field culture rows are placed 4 feet apart.

Barr's Mammoth—Per 100, 75c. Per 1000, \$5.50.

Palmetto—Per 100, 70c. Per 1000, \$5.00.

Colossal—Per 100, 70c. Per 1000, \$5.00.

Mammoth White—Per 100, 75c. Per 1000, \$5.50.

JERUSALEM ARTICHOKE ROOTS.

Used for table and stock feeding. The tubers roasted or boiled, and served with butter, well seasoned, make a dish some think greater than potatoes. However, their greatest value is for hogs. Plant and cultivate like potatoes.

Peck, 75c. Bushel, \$2.50.

HORSE RADISH ROOTS.

The land should be rich, well manured, plowed deeply, harrowed and free from lumps. Plant in a roomy space by itself. Make rows 15 inches apart, set plants 12 inches from each other. Plant shoots about five inches long, making holes for same with a stick, and set them about two inches under the soil. Have the shoots cut squarely across the bottom, but cut slanting at the top, in order that one side may be a little longer than the other. Keep free from weeds for the first and second seasons, after which the Horse Radish will take care of itself. Doz., 20c. By Mail, 25c. Per 100, 75c. By Mail, 90c. Per 1000, \$6.00. By Express not Prepaid.

RHUBARB, OR PIE-PLANT.

This very desirable vegetable comes early in the spring. The large stems of the leaves are used for pie-making and stewing. A deep, rich soil is indispensable to secure large, heavy stalks. Plant in rows 4 feet apart, with the plants 3 feet distant. Set so that the crowns are about an inch below the surface. Top-dress annually in the fall with stable manure, and fork under in the spring.

15c. Each. By Mail, 20c. Doz., \$1.50. By Express not Prepaid.

NURSERY DEPARTMENT--Continued

CLIMBERS

AKEBIA QUINATA—A climbing plant from Japan, with fine foliage, and clusters of purplish fragrant flowers. 50c. each.

AMPELOPSIS QUINQUEFOLIA (Virginia Creeper)—A native vine of vigorous growth, with abundant foliage, turning rich crimson in autumn. 50c. each.

AMPELOPSIS VEITCHII—Japan introduction; rapid grower on walls, etc.; leaves small, turning to red in autumn. 50c. each.

CLEMATIS-FLAMMULA (European Sweet-Scented)—Rapid grower, hardy, bearing white fragrant blooms. 50c. each.

CLEMATIS-JACKMANI—As yet the best, bearing large, velvety, dark violet-purple blooms; strong and hardy. 50c. each.

CLEMATIS-PANICULATA—A hardy Japan variety, having pure white blooms, star-shaped and very fragrant; late bloomer. 50c. each.

CLEMATIS-SCARLET—Flowers brilliant scarlet, blooming in July. 50c. each.

HONEYSUCKLE—Useful for covering arbors, etc., in different varieties of color. 25c. each.

IVY—Hardy evergreen vine, succeeding best in cool, shady places; useful for covering walls, trees, etc. 25c. each.

JESSAMINE-Naked Flowering—Golden yellow flowers, which appear in spring before foliage. 50c. each.

JESSAMINE-Common White—Climber with fragrant white flowers. 50c. each.

JESSAMINE-Grandiflora—Blossoms orange-red. 50c. each.

TRUMPET FLOWER—A rapid-growing plant, with large trumpet-shaped scarlet flowers. 50c. each.

WISTARIA (Chinese)—Rapid grower, having long racemes of pale blue flowers. 50c. each.

WISTARIA (Double Purple)—Flowers very double and deeper in color than above. 50c. each.

WISTARIA—White Flowering and Single—50c. each.

SHRUBBERY

ALTHEA (Rose of Sharon)—Hardy flowering shrubs, in the following varieties of color: Purple, Light Red, White Tipped Pink, White, Lilac. Price, 75c. each.

BLEEDING HEART—Hardy plant, with heart-shaped pink flowers. Price, 25c. each.

CALYCANTHUS FLORIDUS (Sweet-Scented Shrub)—Well-known native bush, young wood of which has a strong aromatic odor. Luxuriant foliage, with rare chocolate-colored blossoms, delightfully fragrant. Blossoms in May and at intervals during summer. Price, 75c. each.

DEUTZIA, GRACILIS—Small pure white flowers, on slender branches; hardy. Price, 75c.

DEUTZIA, CRENATA (Double Flower)—Flowers white margined pink. Price, 75c.

FORSYTHIA (Golden Bell)—Golden yellow flowers in great profusion. 75c. each.

FORSYTHIA (Weeping)—Slender and drooping; yellow flowers. Price, 75c.

HYDRANGEA (Paniculated Grandiflora)—One of the finest shrubs, growing 8 to 10 ft. high, producing immense pyramidal panicles of white flowers. 75c. each.

HYDRANGEA (Otaksa)—From Japan; immense trusses of rose-colored flowers in June. Price, 75c. each.

JAPAN QUINCE—Produces bright scarlet flowers in early spring; hardy. Price, 75c.

JAPAN QUINCE (White Flowering)—Producing delicate white and pink flowers in early spring. Price, 75c.

LILAC—Pure white. 75c. each.

LILAC—Bluish-purple. 75c. each.

LILAC—Louis Van Houtte; large red flowers. Price, 75c. each.

SPIREAS—Anthony Waterer; crimson, of dwarf growth also; excellent for pots. 75c. each.

SPIREA—Bright rose-colored, blooming all summer. 75c. each.

SPIREA—Blue; late bloomers. 75c. each.

SPIREA—White. 75c. each.

SHRUBBERY—(Continued)

SPIREA—Plum-leaved, Bridal Wreath; pure white flowers. 75c. each.

SPIREA (Thunbergii)—Small white-flowering; desirable for pot culture. Price, 75c. each.

SNOWBALL (Cranberry Bush)—An old, well-known shrub, bearing large balls of pure white flowers; very decorative fruit, beginning to color in midsummer, and hangs on during winter. 75c. each.

SNOWBALL (Single)—White flowers and purple foliage in autumn. 75c. each.

SNOWBALL (Japanese)—Flowers in large globular heads, pure white. Price, 75c. each.

SYRINGA (Mock Orange)—Hardy, with handsome foliage and white flowers, which somewhat resemble orange blossoms, being rather fragrant. June flowering. Price, 75c. each.

HEDGE PLANTS

To secure a good hedge it is necessary to plant well. Dig a wide, deep trench, and work the soil thoroughly into the roots. Settle the ground firmly, so that each plant will be set as solidly as a post; then mulch heavily with some coarse material for a distance of one or two feet on either side, according to the size of the plants.

ARBOR-VITAE, American—One of the most desirable evergreen hedge-plants. Of a very attractive appearance. Although a fast grower, it can be kept trimmed to any height desired. Best adapted for screens or windbreaks. 50c. each; \$5.00 Dozen.

PRIVET, California—Nothing in the way of a hedge-plant has attained in so short a time the popularity of the California Privet. While in this latitude it is deciduous, yet it retains its foliage until very late in the fall or early winter. The flower is creamy white and very fragrant. It is certainly a most desirable thornless, hardy hedge-plant, with beautiful dark green foliage. It can be kept at any desired height by frequent trimming, and grows well at the seashore.

California Privet, 2 ft.\$4.00 per 100; \$25.00 per 1000.

California Privet, 18 to 23 in. 3.75 per 100; 30.00 per 1000.

California Privet, 12 to 17 in. 3.00 per 100; 22.50 per 1000.

NUT-BEARING TREES

	Each.		Each.
Japan Chestnut.....	\$1.00	Black Walnut.....	\$.50
Spanish Chestnut.....	.50	Paper Shell Pecans....	.50
American Chestnut....	.50	Horse Chestnut, 5-7 ft..	.75
English Walnut.....	.75	Japan Walnut.....	.50

ORNAMENTAL SHADE TREES

	Each.
Carolina Poplars, 9 to 10 ft.....	\$.40
Carolina Poplars, 10 to 12 ft.....	.50
Lombardy Poplars, 9 to 10 ft.....	.50
Silver Maples, 9 to 10 ft.....	.50
Silver Maples, 10 to 12 ft.....	.70
Norway Maples, 8 to 9 ft.....	1.00
Norway Maples, 10 to 12 ft.....	1.50
Norway Maples, 12 to 14 ft.....	2.00
Pin Oaks, Red Oaks, Willow Oaks, 6 to 7 ft.....	.70
Weeping American Willow, 6 to 8 ft.....	.40
Golden Willow, 9 to 10 ft.....	.50
American Elms, 9 to 10 ft.....	.70
American Elms, 10 to 12 ft.....	.80
American Elms, 12 to 14 ft.....	1.20

STRAWBERRY PLANTS

The ground should be prepared the same as for other crops; if not already rich, make it so by manuring. Mark out the rows the desired width, and set plants ten to seventeen inches distant in the rows; if set twelve inches in rows four feet apart, an acre will require 10,890 plants; same as if set sixteen inches in rows three feet apart.

In early winter when the ground is frozen, cover the whole with long straw, which should be removed from the plant in the spring, but allowed to remain on the ground as a mulch, to keep the berries clean next summer. When strawberries are moved in the fall, they should be left until October or the first of November.

The blossoms of all varieties marked "S" are bi-sexual or perfect, those marked "P" are destitute of stamens and are termed pistillate or imperfect.

Imperfect varieties should have a row of perfect flowered sorts planted every third or fourth row to pollenize their blossoms. When imperfect blossoms are properly fertilized they are the most prolific.

GANDY (S)—Strong plants, bright red in color and good late shipper. Succeeds best in heavy clay soil or bottom land.

GLEN MARY (S)—Dark red fruit, rich and juicy. Good firm shipper.

LADY THOMPSON (S)—Early large-sized berry, robust and good shipper.

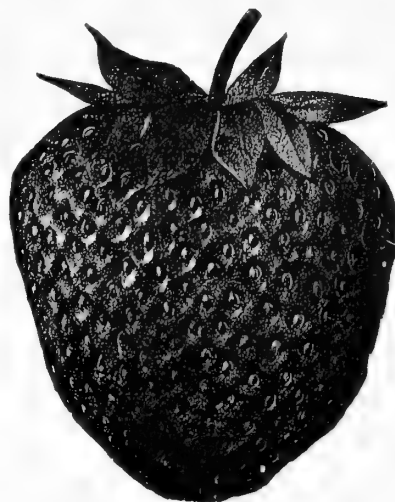
MICHEL'S EARLY (S)—Medium size, evenly colored, with rich mild flavor.

NICK OHMER (S)—Very productive, large glossy red. Superior flavor.

TENNESSEE PROLIFIC (S)—Large size, bright crimson fruit. Good shipper and canner.

PRICE—Any variety, strong, healthy layer plants, 25c. per doz.; 75c. per 100; \$4.00 per 1000.

By express not prepaid.



OREM (S)—Firm large rich red berries. A late variety and good bearer.

TUBBS (S)—Bright scarlet, medium to large fruit. Very productive.

SUPERIOR (S)—Large fruit of fine quality, specially for market.

STEVEN'S LATE (S)—Heavy yielder, having large bright red fruit.

KLONDYKE (S)—Good cropper and firm berry, making a fine shipper.

SHARPLES (S)—Large fruit, of bright scarlet color. Flesh firm, juicy and sweet. Medium to late.

PARSONS BEAUTY (S)—Mid-season. Strong plants and very productive.

FROST-PROOF CABBAGE PLANTS

WILL MATURE HEADS TWO TO THREE WEEKS EARLIER THAN YOUR HOME-GROWN PLANTS.

Varieties: Early Jersey Wakefield, Charleston Wakefield, Succession and Early Flat Dutch

These plants are grown in the open field during the fall and winter months, which causes them to make a slow, tough, hardy growth—so hardy that the outer leaves turn to a reddish brown. They can be shipped to distant points without danger of spoiling, and should be planted in the open ground from four to five weeks earlier than frame plants.

They will stand a temperature of 10 to 15 degrees above zero without injury. Will do very much better planted early, as they will take root and start to grow as soon as warm weather sets in.

Orders filled from January 1 until April 1. We do not advise planting later than this time.

The plants when received will be somewhat wilted and have a hard stunted appearance, which will be disappointing to persons who have never used these plants before. Regardless of appearance, they will produce the crop results.

Prices by parcel post, postage paid, 35 cts. per 100 plants to all places in the postal union, on lots for 100 to 400.

On larger quantities the prices are as follows:

GROUP 1—Georgia, Louisiana, Mississippi, North Carolina and South Carolina; 500 plants, \$1.10; 1,000 or more at \$1.90 per 1000, postpaid.

GROUP 2—Maryland, Virginia, West Virginia, Pennsylvania, Delaware, New Jersey, Ohio, Kentucky, Tennessee, Alabama, Arkansas, Florida, Missouri, 500

plants for \$1.25; 1000 or more at \$2.20 per 1,000, postpaid.

GROUP 3—Connecticut, Kansas, Illinois, Indiana, Iowa, Massachusetts, Michigan, New Hampshire, New York, Oklahoma, Rhode Island, Texas, Vermont and Wisconsin: 500 plants for \$1.40; 1,000 plants or more at \$2.45 per 1,000, postpaid.

GROUP 4—Arizona, Colorado, Minnesota, Nebraska, New Mexico, North Dakota, South Dakota, Utah, and Wyoming; 500 plants for \$1.55; 1,000 or more at \$2.75 per 1,000, postpaid.

GROUP 5—All States not listed, also Canada, Cuba and Mexico; 500 plants for \$1.70; 1,000 or more at \$3.05 per 1,000 postpaid.

Prices by express, F. O. B. growing station, buyer paying charges: 500 for \$1.00. In lots of 1,000 to 4,000 at \$1.50 per 1,000. 5,000 to 8,000 at \$1.25 per 1,000. In lots of 10,000 or over at \$1.00 per 1,000.

Plants are Packed for parcel post shipment either 100, 200, 300, 400, 500 or 1,000 plants to package. For express shipment 500 to 1,000 plants to package. Order in these quantities. They weigh 15 to 20 pounds per thousand plants packed for shipment.

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Grow legumes to build up worn-out lands. These crops add humus and nitrogen and make available for plant food the potash and phosphates that are in the soil. All legumes, when properly inoculated, will greatly benefit other crops growing with them, and further deposit large amounts of nitrogen in the soil for future crops. Use only the pure culture of recognized standard.

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The new culture put up in tin cans supplied with air. It is in a granulated form, and can be mixed with the seed before planting.

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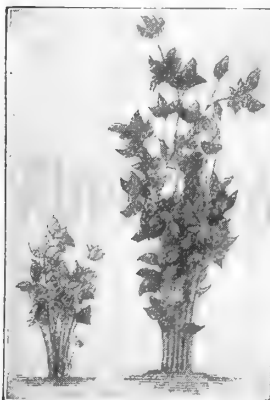
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"Nitragin" is the trade name for the germ that acts on the legume root, draws nitrogen from the air and converts it into plant food. As a result, there is a uniform "catch" and quick growth of hardy, strong, healthy plants. The soil is enriched for the nourishment of succeeding crops.

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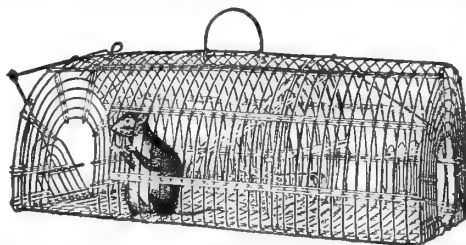
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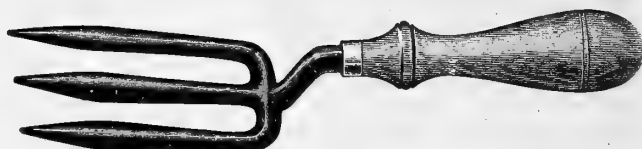
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A Very Handy and Useful Weeder.
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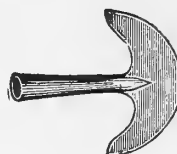
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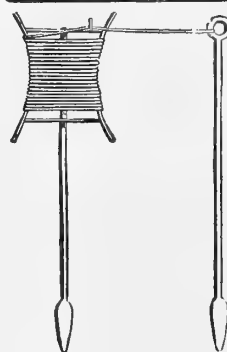
SCUFFLE HOES

4-inch	50c.
6-inch	60c.
8-inch	70c.
10-inch	80c.



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9-inch, American75
8-inch, English, black.....	1.25
9-inch, English, black.....	1.35
10-inch, English, black.....	1.50



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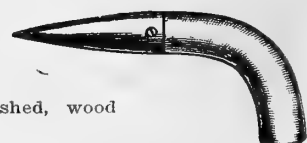
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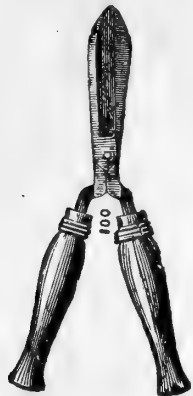
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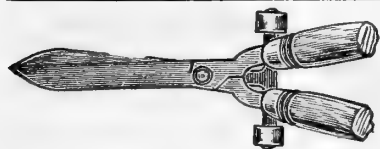


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- No. 100—12-inch 2.50
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No. 1062—2 wheels, 8-inch blade, for cutting on narrow borders, under fences and shrubs, \$2.75.



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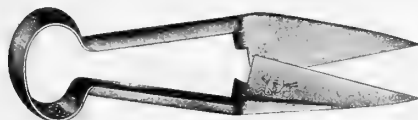
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- No. 360—Bent Handle.....35c.
- No. 460—Trowel Handle.....50c.

Sheep Shears



No. 3749.....85c.

No. 3755,
Full polish,
\$1.00.

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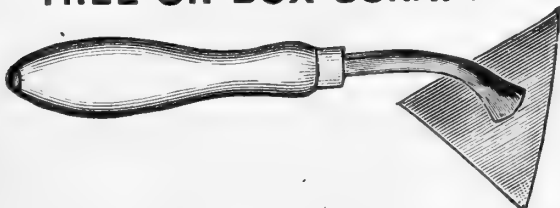


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HORSE SCISSORS

- No. 9162—Extra fine.....\$1.25

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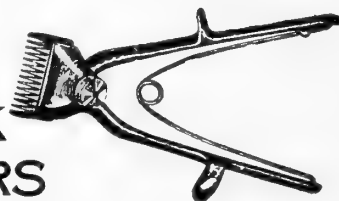
Price, 35c. Parcel Post Weight, 2 Pounds.

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- No. 179—Coates Horse Clipper.....\$1.00
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- No. 71—Fetlock Clipper.....\$1.00
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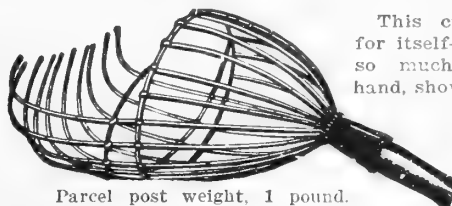
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FLOWER AND GRAPE SCISSORS

- No. 3791—Flower Gatherer\$.90
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 - No. 3794—Grape Thinning Scissors..... 1.00
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This cut almost speaks for itself—the device, being so much like the human hand, shows at once the utility of the article. As a Fruit Picker it has no superior. It is made of heavy

galvanized wire, and easily adjusted to a pole.....25c.

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- No. 2—White Mountain, 10c. each; \$1.00 doz.
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- No. 5—Mowing Machine (beveled), 10c.
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HORTICULTURAL TOOLS AND SUPPLIES—Continued



WATERS' TREE PRUNERS

4 feet.....	\$.75
6 feet.....	.85
8 feet.....	1.00
10 feet.....	1.10
12 feet.....	1.25
Extra Knives .....	.25

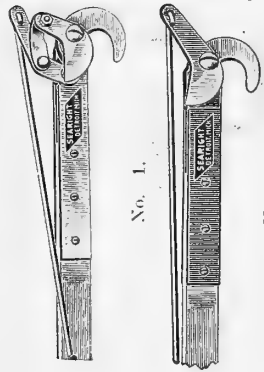
TELEGRAPH TREE PRUNERS

Price without pole.....	\$1.00
Extra blades.....	.25c.

"Searight" Tree Pruners

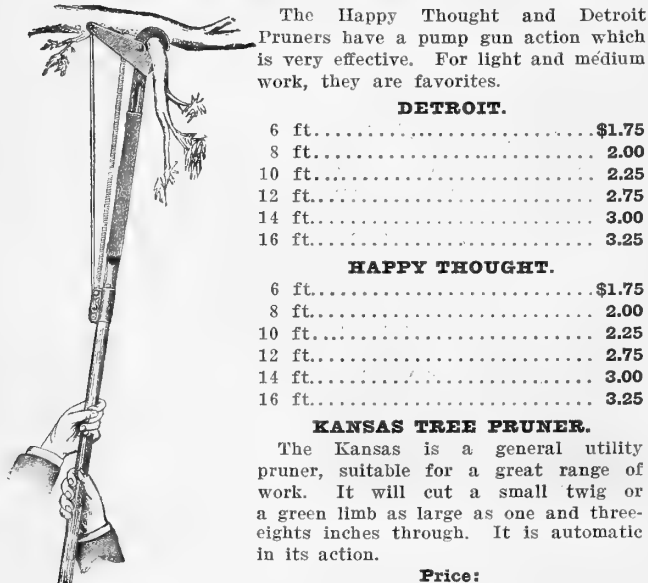
Notice the compound lever on the No. 1 Pruner. The construction of the lever is such as to give the greatest cutting capacity with the least power, and add lightness to the pruner, and insure ease in operation.

	Our Special Price.
No. 1—8 ft.....	\$2.40
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No. 1—12 ft.....	2.60
No. 3—10 ft.....	1.80
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DETROIT TREE PRUNER

HAPPY THOUGHT TREE PRUNER



The Happy Thought and Detroit Pruners have a pump gun action which is very effective. For light and medium work, they are favorites.

DETROIT.

6 ft.....	\$1.75
8 ft.....	2.00
10 ft.....	2.25
12 ft.....	2.75
14 ft.....	3.00
16 ft.....	3.25

HAPPY THOUGHT.

6 ft.....	\$1.75
8 ft.....	2.00
10 ft.....	2.25
12 ft.....	2.75
14 ft.....	3.00
16 ft.....	3.25

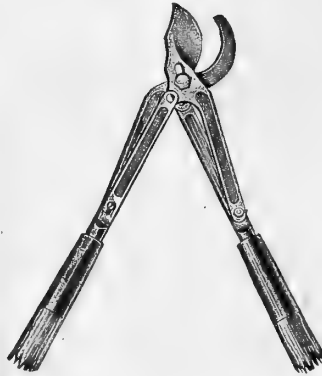
KANSAS TREE PRUNER.

The Kansas is a general utility pruner, suitable for a great range of work. It will cut a small twig or a green limb as large as one and three-eighths inches through. It is automatic in its action.

Price:

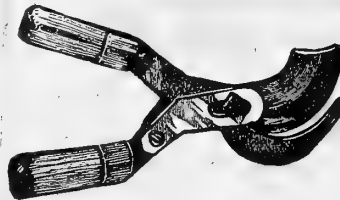
With 5½ ft. handle.....	\$3.50
Extension handles, each.....	1.00

KANSAS PRUNER

ORCHARD KING
LOPPING SHEAR

This two-hand pruning shear readily cuts a live tree branch two inches thick. A roller bearing makes it work easily and prevents wear. The compound lever and the slot in the blade at the pivot bolt causes a powerful, long drawing cut, making an easy, clean cut.

Our Special Price.....\$3.50



LOPPING SHEARS

The Baltimore Draw Cut Shear is extra strong, and will cut large limbs with the least exertion.

The American or Tip Top Shear is light and strong, and is very handy for light work. It will not tire you to handle it.

No. 5—American, or Tip Top.....	\$1.00
No. 4—American, or Tip Top.....	1.25
No. 3—Searight, Extra Heavy.....	1.50
No. 1—Baltimore Draw Cut.....	2.50
No. 2—Baltimore Draw Cut.....	2.25

PRUNING SAWS



16-inch double.....	\$.65
18-inch double.....	.75
20-inch double.....	.85

PRUNING KNIVES



No. 2173—Cocoa Handle.....	65c.
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BUDDING KNIVES

No. 12.....	\$1.00
No. 10.....	1.25

PRUNING SHEARS

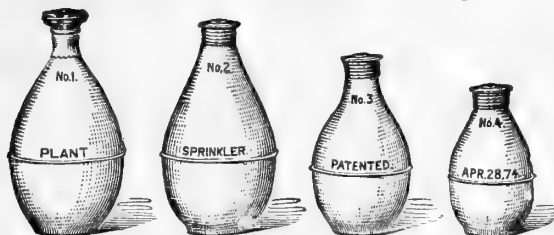


No. 4—Flat Spring, Steel Blade.....	\$.30
No. 33—Coil Spring, Mal. Handle, Steel Blade.....	.40
No. 1537—Solid Steel, half polish, 8-inch.....	.50
No. 4665—Solid Steel, 9-inch.....	.75
No. 4666—Solid Steel, full polish, 9-inch.....	1.00
No. 2—French Pruning, 8½-inch.....	1.50
No. 4770—Ladies', nickel-plate, 6-inch.....	1.00

Parcel post weight, 1 pound.

Florist and Garden Supplies

PLANT SPRINKLERS



For sprinkling cut flowers, seedlings, plants, clothes, etc.

No. 1—Standard, 12-ounce	\$1.05
No. 2—Standard, 7-ounce	.90
No. 3—Wide Neck, 7-ounce	.75
No. 4—Wide Neck, 4 1/4-ounce	.60

Parcel post weight, one pound.

PUTTY BULB

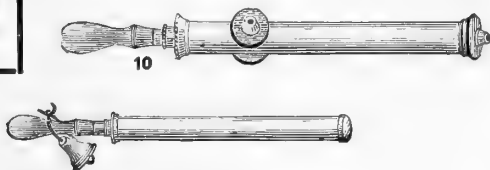


This improved Putty Bulb is made from a good grade of rubber. For glazing greenhouses, new or old; will be found very handy.

Price\$1.15

Parcel post weight, 1 pound. We do not guarantee rubber goods.

Brass Garden Syringes



Made of heavy brass, which will last for years.

No. 101—1x12, Rose and single stream	\$1.50
No. 102—1 1/4x16, Rose and single stream	3.00
No. 103—1 1/2x16, Rose and single stream	3.75
No. 109—1 1/4x16, Single stream and two roses	4.50
No. 110—1 1/2x18, Single stream and two roses	4.00

WOOL-LINED HOT-BED MATS



Made of strong Drill, interlined with wool.

Price, 40x76, each, \$1.00

Price, 76x76, each, 1.50.

Special Price in Dozen Lots.

Plant Bed Cloth

A cheap substitute for glass, and will keep out many degrees of frost. Also useful for shading material. Samples mailed on application.

Light grade	7c.	yard
Piece of about 65 yards	5 1/2c.	yard
Medium grade	10c.	yard
Piece of about 60 yards	9c.	yard
Heavy grade	14c.	yard
Piece of about 40 yards	13c.	yard

Marline

Furnished in 1, 5, 10, 15 and 20-pound bales.

5-pound Bales	17c. per pound
1-pound Bales	18c. per pound

Special Prices in Quantities.



MASTICA

Mastica.—For glazing greenhouses, sashes, new and old. It is elastic, adhesive and easily applied. It is not affected by dampness, heat or cold. "Mastica," when applied, in a few hours forms a skin or film on the entire mass, hermetically sealing the substance and preventing the evaporation of the liquids, and remains in a soft, pliable and elastic condition for years. "Mastica" is of great value in going over old houses with a putty bulb or machine on the outside of sash, as it makes it perfectly tight and saves the expense of relaying the glass.

1-gallon cans\$1.35

Mastica Glazing Machine

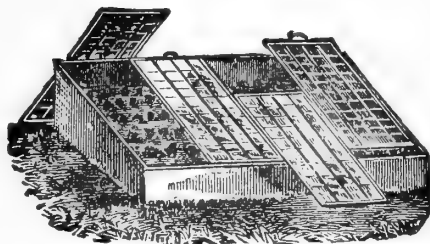
Our Special Price.....\$1.25

TWEMLOW'S OLD ENGLISH GLAZING PUTTY

Semi-Liquid.

16-pound can (1-gallon capacity)	\$1.40
80-pound kits (5-gallon capacity)	6.90

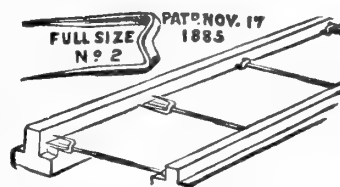
For bedding glass in sash and filling cracks or seams in roof joints or frames of greenhouses or hotbeds.



UNGLAZED HOT-BED SASH

3x6 feet,
Price, 90c. each

PEERLESS GLAZING POINTS



(Imp. Van Reyper.)

The finest glazing points on the market. The glass cannot slip; they are quickly and easily put in with special pin-cers; no "rights" or "lefts" to bother with.

Per box of 1000.....60c.

Pincers, per pair.....50c.

Parcel post weight, 2 pounds.

GRAFTING WAX

1 1/2-lb.	10c.	1/2-lb.	20c.	1-lb.	35c.
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SPHAGNUM MOSS

For packing growing Orchids, Plants, etc. Per bale...\$2.50

RAFFIA

The best material for tying Plans, Vines, etc. Per pound, 20c. 10 pounds, \$1.50.

SILKALINE, spool25c.

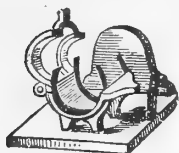
Florist and Garden Supplies — Continued

ASPARAGUS KNIFE



Made of solid steel; see the cutting point. Price 50c. each.
Parcel post weight, 1 lb.

ASPARAGUS BUNCHER



Put your asparagus up in bunches, with this Improved Asparagus Buncher. It is adjustable for all lengths of bundles, correct in design and quick in operation. It makes a well-formed, compact bundle, adding greatly to the looks of the vegetable. Price, each\$1.75

Parcel post weight, 5 pounds.

POT LABELS



Plain. Painted.

4 -inch, per 1000..	.70	\$.85
4½-inch, per 1000..	.85	1.00
5 -inch, per 1000..	1.00	1.25
6 -inch, per 1000..	1.25	1.50
12-inch, per 100....	.75c.	

Special price in quantities to florists.

PAINTED TREE LABELS

Per 1000.

3½-inch, notched or pierced..	\$.80
3½-inch, iron wired.....	1.00
3½-inch, copper wired.....	1.25

HEAVY OR DAHLIA STAKES

	Each.	Per Doz.	Per 100.
3 feet.....	7c.	\$.75	\$4.85
4 feet.....	10c.	1.10	6.50
5 feet.....	11c.	1.25	8.15

LIGHT PLANT STAKES

	Each.	Per Doz.	Per 100.
1½ feet.....	2c.	17c.	\$1.00
2 feet.....	3c.	28c.	1.70
2½ feet.....	5c.	39c.	2.40
3 feet.....	5c.	51c.	3.20

Galvanized Hard Steel Plant Stakes

These are a great improvement over the wooden stakes for carnation and rose beds; they are durable, neat and strong.

	Per 100.	Per 1000.
2½ feet.....	\$.75	\$6.25
3 feet.....	.90	7.75
3½ feet.....	1.10	9.00
4 feet.....	1.25	10.50
5 feet.....	1.50	13.00

CANE STAKES

	5 to 7 feet long.	Per 1000.....
Per 100.....	\$1.00	\$6.00



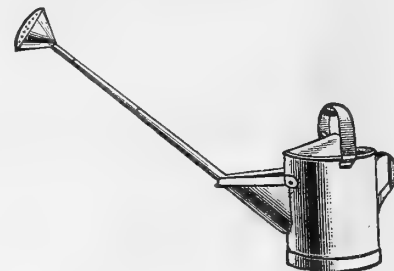
IRONCLAD WATERING POTS

4-quart....	35c.
6-quart....	45c.
8-quart....	55c.
10-quart....	60c.
12-quart....	70c.
16-quart....	\$1.00
20-quart....	\$1.25

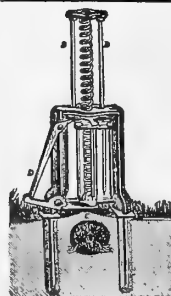
WOTHERSPOON WATERING POTS

These pots are made from the best grade of galvanized iron, and are very heavy and strong. The long spout makes them very desirable for greenhouse and flower bed use. Each can is equipped with a fine and coarse nozzle, with copper perforation.

6-quart.....	\$1.85
8-quart.....	2.00
10-quart.....	2.25
12-quart.....	2.00



L. M. OLMSTEAD'S IMPROVED RELIABLE MOLE TRAP.



Without a doubt, the best mole trap made, built so that you can place a weight upon it, insuring perfect action, even in the softest ground. It is built low, and can be used in many places that a taller trap would not do.

Our Special Price.....\$1.50

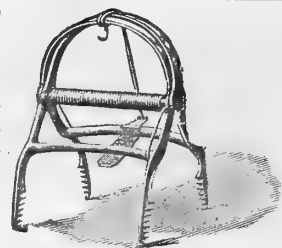
Parcel post weight, 2 pounds.

OUT OF SIGHT MOLE TRAP.

Considered to be one of the best and cheapest Mole Traps on the market. Especially valuable for hot-beds and frames on account of convenient size.

Price.....\$1.00.

Parcel post weight, 2 pounds.



The Little Giant Mole Trap.

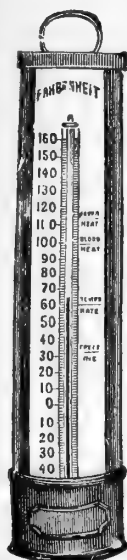


Self-setting by pressing down on lever. Very convenient feature found on no other trap. Made from best spring steel, thoroughly galvanized. Simple and durable in its construction.

Price.....75c.

Parcel post weight, 2 pounds.

THERMOMETERS



No. 5440.

No. 5440—8-in. tin japanned.....15c.

No. 5420—10-in. tin case, best quality, tested60c.

No. 5442—12-in. Tobacco Curing, best quality, tested.....35c.

No. 5162—10-in. Distance Reading; an excellent thermometer for greenhouses and for use where it is necessary to get a quick reading, 25c. If thermometers are wanted by parcel post, add 10c. for postage and packing



No. 5120.



No. 5140.

No. 5120—8-inch Cabinet, magnifying tube, black oxidized scale, white figures and graduation, brass screw clasps and guard, back of oak finished, natural.....60c.

No. 5140—8-inch Cabinet, magnifying tube, black oxidized brass scale, white filled figures, nickled straps and guard, wood back finished in birch.....40c.

If thermometers are wanted by parcel post, add 10c. for postage and packing.



No. 5232.



No. 5472.



No. 5981.

No. 5232—Porcelain Scale Wood Back, magnifying tube, porcelain bevel edge scale, annealed black figures, oak back, polished all sides.

8-inch\$1.00
10-inch1.50
12-inch1.75

No. 5472—Self-Registering, boxwood scale, black filled figures, japanned tin case, 10-inch\$2.50

No. 5981—Hot Bed, 16-in., wood frame, with handle, brass pointed ferrule, brass oxidized scale, white filled figures and graduations\$1.50

Add 10c. if by parcel post.



No. 3.



No. 2.



No. 6.

No. 1—Hang-up Thermometer, with wire hanger, each, 60c.; price, postpaid.....65c.

No. 2—Universal; may be used as hang-up, reclining, stand-up or inclining with proper holder. Without holder, each, 50c.; postpaid.....55c.

No. 3—Reclining or lay-down pattern, each, 65c.; postpaid.....70c.

No. 5—Incline, with holder, each, 60c.; postpaid.....65c.

No. 6—Brooder Thermometer for Prairie State Brooders, each, 50c.; postpaid.....55c.



No. 5730.

No. 5730—Standard Dairy, stands boiling water; black oxidized brass scale, white filled figures and graduations range from 20 to 220 degrees.....60c.

No. 3740—Floating Glass Dairy.....25c.

No. 3744—Floating Glass Dairy, large size50c.

Add 10c. if by parcel post.



No. 3740.



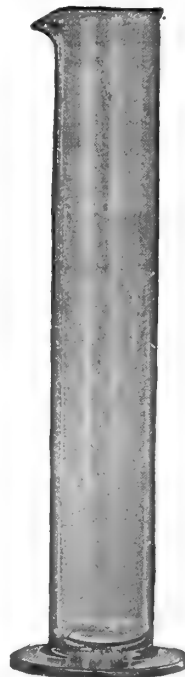
No. 7410.

No. 7234—Milk Hydrometer.....40c.

No. 7236—Milk Hydrometer (Quevne).....75c.

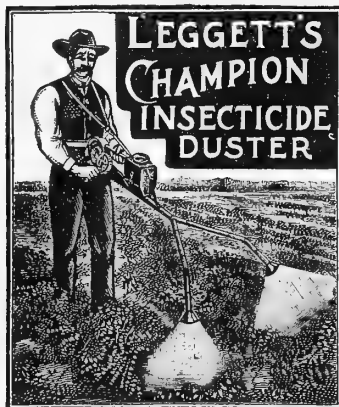
No. 7410—Lime-Sulphur Hydrometer, with test jar.....\$1.25

If by parcel post, add 10c.



ALWAYS ORDER BY FIGURE AND NUMBER WHERE GIVEN

Leggett's Champion Dry Powder Duster

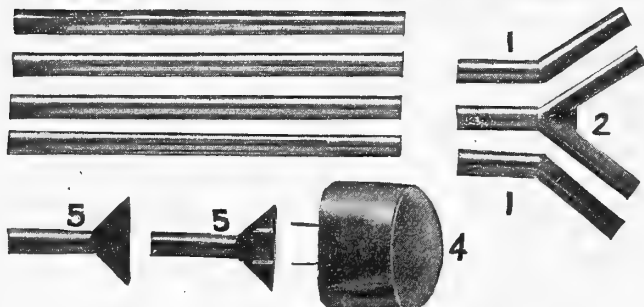
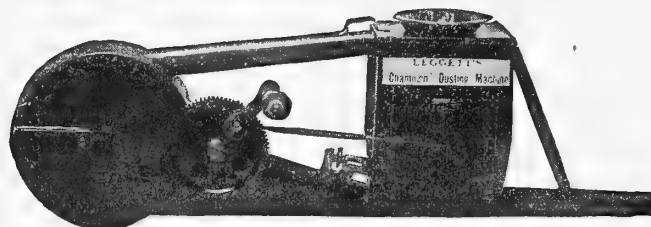


For farm, garden, vineyard, tobacco fields, etc. Adjustable to any width of row. Many thousands in use. Distributes Paris Green, London Purple, Hellebore, Sulphur, Lime, Dry Bordeaux Mixture, Dry Bordeaux Mixture and Paris Green Compound, Spanish Pink, Pyrethrum Powder, etc.

Dusts potato vines as fast as you walk, two rows at a time. Illustration below shows tubing and nozzles. Any one can use it. Weighs, cased for shipping, 17 pounds.

This Machine keeps the Poison at a Safe Distance from the Operator.

Our Special Price, \$8.00.

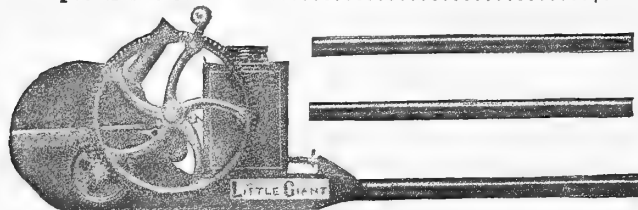


CHAMPION DRY POWDER DUSTER \$8.00

Little Giant Powder Duster

This Duster is somewhat like the Champion Duster, except it is lighter and has a smaller capacity. A fine machine for use on small places. And will do the work well. It is nicely made, and very strong. Illustration below shows pipes and nozzle.

Our Special Price.....\$6.00



LITTLE GIANT POWDER DUSTER, \$6.00.

THE ACME POWDER GUN



Consists of a tight valveless bellows equipped with a distributing tube or nozzle, a funnel, a spreader for diffusing the spray and an elbow for placing the spray on the underside of the leaves. Handles of convenient length and bellows of fine russet leather. A very practical and convenient way of applying Paris Green, Lice Killers, Insect Powder, etc. Parcel post weight, 2 pounds.

Our Special Price.....75c.

MIDGET TIN HOUSE SPRAYER



Similar to Tin Can Sprayer, only smaller. Holds half pint. Indispensable in every household. Just the thing for disinfecting sick rooms, drains, vaults, kennels, etc. Also rose bushes or any small shrubbery. Will

successfully apply any non-sedimental liquids. Parcel post weight, 1 pound. **Price 35c.**

Gritco Tin Can Sprayers

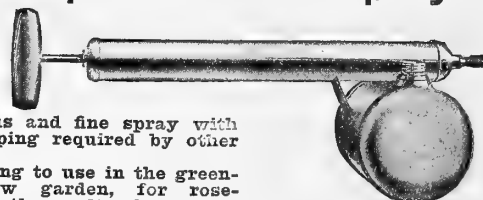


For spraying insecticides on plants and flowers, disinfectants in sick rooms, kennels, cellars, drains, vaults, poultry houses, etc.

Tank, 4 inches in diameter, 4 inches deep; air chamber, 14 1/2 inches long, 1 3/4 inches in diameter. Coppered steel plunger rod. Made of heavy tin plate. Each one tested for leaks and sprays. Capacity, one quart. Parcel post weight, 2 pounds.

Our Special Price.....50c.

Auto Compressed Air Sprayer



A continuous and fine spray with half the pumping required by other atomizers.

Just the thing to use in the greenhouse, window garden, for rose-bushes and in the poultry-house.

Will handle all solutions, insecticides and disinfectants. Made throughout of stout material. Copper syphon tube, bronze ball valve, plunger rod, 1/4-inch, copper plated steel. The solution does not come in contact with the pump cylinder. The spray may be adjusted by a slight turn of the nozzle cap.

No. 37A. All Tin.....\$.80
No. 37B. Tin Pump and Galvanized Reservoir......90
No. 37C. Tin Pump and Brass Reservoir.....1.25

THE ACRE-AN-HOUR SIFTER

Made from heavy tin, bottom and side perforated. Can be adjusted to put on a small or large quantity of dust on potatoes or other vines. Parcel post weight, 2 lbs.

Price.....75c



DICKEY DUSTER



Parcel post weight, 2 pounds.
Price.....25c.

LEVER BUCKET SPRAY PUMPS

Fig. 632.

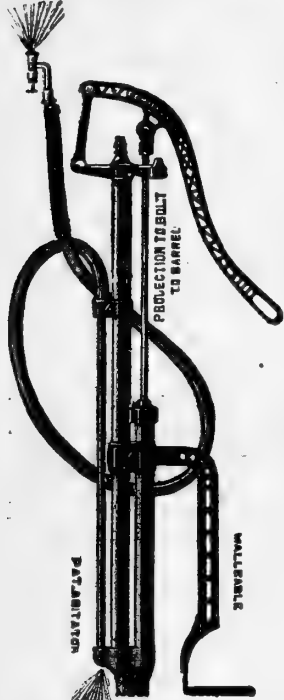


Fig. 632 represents the Myers Lever Bucket Spray Pump, made of brass, and fitted with brass ball valves and patented agitator. The cylinder is $1\frac{1}{4}$ inches in diameter with solid plunger. The air chamber is fifty per cent larger than the ordinary bucket spray pump, has malleable iron foot rest and malleable lever. This pump can be operated with one-half the power of the ordinary bucket spray pump, owing to the advantage of the lever handle. This pump can also be used as a barrel spray pump the head having two holes in for bolting same to the barrel.

We recommend a Bordeaux Spray Nozzle for whitewashing and painting, if you desire the Vermorel Nozzle instead of the Bordeaux, please specify.

Fig. 632, No. 324 Lever Bucket Spray Pump, with agitator, complete with hose, Bordeaux, coarse spray and solid stream nozzle, List Price, \$6.00. Our Special Price, \$4.25.

No. 324A Lever Bucket Spray Pump, with agitator, complete with hose, Bordeaux, coarse spray and solid stream nozzle and eight foot pipe extension List Price, \$6.50. Our Special Price, \$4.75.

No. 324B Lever Bucket Spray Pump, with agitator complete with hose, Bordeaux coarse spray and solid stream nozzle and eight foot pipe extension with stopcock, List Price, \$7.40. Our Special Price, \$5.35.

LITTLE GIANT BRASS SPRAY PUMP AND FIRE EXTINGUISHER WITH AGITATOR

Fig. 639.

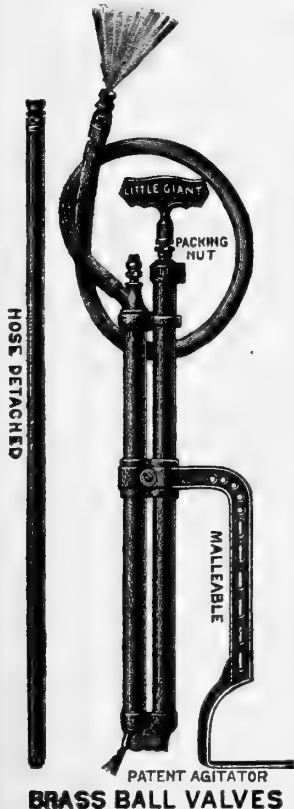


Fig. 639 Spray Pump is constructed entirely of brass. They are so arranged that the labor of pumping is all on the downward stroke of the piston and nothing on the up. The effect of this operation while pumping is to hold the pump down. The foot rest steadies the pump, holding it in proper position. It is provided with a large air chamber and has brass ball valves and detachable hose; the nozzle throws a continuous spray, and is not affected by the movement of the plunger. Will throw a solid stream fifty feet, and is of unusual value in spraying trees, washing windows and buggies, extinguishing fires, spraying flowers and etc.

No. 327 $\frac{1}{2}$, Fig. 639. Bucket Brass Spray Pump, complete with hose and combination fine, coarse spray and solid stream nozzle. Factory List Price, \$4.00. Our Special Price, \$3.00.

No. 328, Fig. 639. Bucket Brass Spray Pump, complete with hose and combination fine, coarse spray and solid stream nozzle, and an eight-foot pipe extension. Factory List Price, \$4.50. Our Special Price, \$3.50.

THE MYERS WHITEWASH, GOLD WATER PAINTING MACHINE AND GENERAL PURPOSE SPRAYER No. 329

Fig. 1358.



This General Purpose Sprayer, with patent Double Agitator, is a most complete and serviceable outfit. The tank is made of heavy galvanized iron with a wide bottom so as to set steady in operation. The cover is removable, is held securely in place by two thumb nuts, one on each side, which holds the cover tight and prevents spilling or splashing of the liquid. Holds 7 Gallons.

This is an excellent outfit for white washing chicken houses, fences and outbuildings. For spraying trees, shrubbery, plants and in fact anything where a small sprayer can be used. This outfit will be found just the thing.

The pump used in this outfit is the same as the No. 324 Sprayer as shown under Fig. 632, fitted with Bordeaux nozzle, brass ball valves, and has jet and dasher agitator.

Complete with Hose, Nozzle, Agitator and Extension Rod.

List Price, \$11.00. Our Special Price, \$7.00.

THE LEVER KNAPSACK SPRAY PUMP

Fig. 547.—No. 330 Galvanized.



Tank holds 5 gallons, is fitted with lid, and strainer, which can be removed. This Pump has lever, large air chamber, ball valves, solid plunger and agitator. Fitted with 5 feet $\frac{1}{2}$ -inch hose, pipe extension and Bordeaux spray nozzle; can be graduated from a fine mist to a solid stream, or shut off entirely.

Factory List Price, \$11.00; Our Special Price, \$7.50.

THE PERFECT KNAPSACK SPRAY PUMP

Fig. 547.—No. 331. Copper.

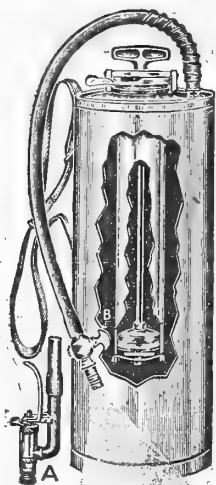
Is the same as No. 330, except tank is constructed entirely of copper. Complete with hose, stop-cock, pipe extension and Bordeaux nozzle.

Factory List Price, \$16.00; Our Special Price, \$11.25.

FOR SPRAYING MATERIALS, SEE PAGES 94 TO 98.

ALWAYS ORDER BY FIGURE AND NUMBER WHERE GIVEN

AUTO-SPRAY No. 1



Weight empty, 7 lbs.
Weight loaded, 39 lbs.
Weight shipping, 15 lbs.

A Self-Operating or Automatic Sprayer.

The Auto-Spray No. 1 is one of the best on the market. It is very strong and practical. When properly charged contains three gallons of solution and one gallon of compressed air. Ten to twelve strokes of the plunger will compress the air and two pumpings will empty the entire contents.

All parts which come in contact with solution are made of brass, and the handle and other parts are made of malleable iron.

Length of cylinder, 21 in.; diameter of cylinder, 7 inches; capacity, about 4 gallons; weight, empty, 7 pounds.

Auto-Spray No. 1C—Galvanized Reservoir, Stop Cock. Our Special Price, \$5.00.

Auto-Spray No. 1D—Galvanized Reservoir, Auto-Pop. Our Special Price, \$5.50.

Auto-Spray No. 1A—Brass Reservoir, Stop Cock. Our Special Price, \$7.25.

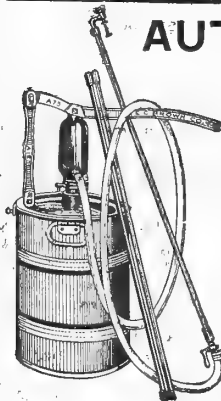
Auto-Spray No. 1B—Brass Reservoir, Auto-Pop. Our Special Price, \$7.75.

PATENTED.

EXTRAS.

Auto-Pop Nozzles	\$1.25
Extension Pipe, brass, 2-foot length, 50c.; galvanized. ....	.40
Brass Elbow Extension .....	.30
Double Row Attachment	1.50
Brass Strainer for straining solutions used in Auto-Spray 1.00	

AUTO-SPRAY No. 40 B



Capacity, 8 gallons.
Net eight, 33 pounds.
Shipping weight, 45 pounds.

The Auto-Spray No. 40 B is especially adapted for spraying whitewash, cold-water paint, as well as for spraying trees, garden vegetables, vines and plants.

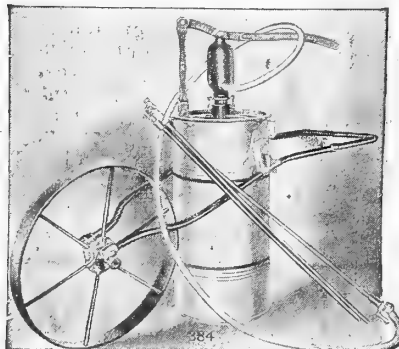
Correctly designed on mechanical principles, with every unnecessary part eliminated.

The machine is equipped with 8-foot high-grade spray hose, 8-foot iron extension rod, lever shut-off and latest pattern Vermorel Nozzle.

Auto-Spray No. 40B, with 8-gallon galvanized tank equipped as described above. List Price, \$14.00

Our Special Price, \$12.00

AUTO-SPRAY No. 40 D



The Auto-Spray No. 40D is mounted on a steel truck, with a 20-inch steel wheel with a broad tire, and is especially adapted for garden, lawn and vineyard work.

The tank is made of heavy galvanized steel with a broad, flat bottom, which rests firmly on the ground while in operation.

Plunger Brass 1 1/2 inches in diameter, 3 to 4 1/2-inch stroke as desired. The plunger operating in connection with the air chamber ensures greater reserve capacity than is usually found in this size

machine. Plunger style pump. Graphite packing adjustable from the outside by tightening two bolts. Brass ball valves. Suction pipe fitted with brass strainer. Mechanical agitator operated from the handle.

The top casting on tank has broad flange, which prevents the solution from slopping over.

Equipped with 8 ft. 3/4 heavy spray hose, 8 ft. iron extension, lever shut-off and latest pattern Vermorel nozzle.

Repair list, with formula for mixing whitewash and cold-water paint, with each machine.

Price complete with 12-gallon galvanized-steel tank, \$17.00

GRITCO-D SPRAY PUMP



This is one of the most convenient outfits for general use. As an all-round utility sprayer it cannot be beaten. It is particularly adapted for both the garden and greenhouse, also for orchard use, as well as for spraying live stock. It is a splendid whitewashing outfit.

SPECIFICATIONS.

Has 1 1/4 brass cylinder, brass ball valves and seat, brass plunger and special plunger packing, twin paddle agitators, 24-gallon

wood tank with hinged wood top. Metal wheels, 24 in. in diameter, with 2-in. tires. Strong iron axle. Hub-to-hub measurement, 33 in.

Six feet 1/2-in. discharge hose and Bordeaux nozzle. Shipping weight, 120 lbs. **Price, complete as described, \$15.00.**

"PERFECTION" SPRAYER



Built on the best lines, of high-grade material.

The tanks are made of heavier metal than has ever been used in sprayers of this kind, are lock seamed at the corners to convex heads of metal two gauges heavier than the sides.

The pump is 1 1/4-inch seamless brass tubing with a brass valve, and is sealed into the top of the tank with heavy threads following the construction used in the best makes of fire extinguishers.

The hose is attached to the sprayer at an angle so that it will not kink and become broken.

The hose is equipped with a special automatic shut-off nozzle.

All sprayers tested to 60 pounds before leaving factory.

Weight, 9 pounds empty.

Galvanized Steel \$5.00

All Brass, 7.75

The "Universal Success"

Sprayer



Fig. 662.
(Six
Pumps
in One.)

All working parts are brass, including brass ball valves. A sliding cover prevents the liquid from splashing; also removable strainer is provided. Four feet of hose and an extension pipe furnished. Full directions with each pump. With each pump is shipped extra one small rubber discharge plug, which fits into any ordinary basin or bath tub waste opening for forcing out obstructions; one fire protector nozzle and buggy washer, in addition to Bordeaux Nozzle that is attached to extension rod. Capacity 5 gals. Boxed for shipment outfit weighs about 30 lbs.

Outfit with Galvanized Tank, List Price, \$10.00; Our Special Price, \$6.75.

Outfit with Brass Tank, List Price, \$14.00; Our Special Price, \$10.00.

Fig. 1188.
Weight, 41 lbs.

GOULD'S "Fruitall" Spray Pump

All Working Parts Bronze.

The Fruitall Sprayer is first-class in every respect. While the simplicity of its design allows it to be sold at a very reasonable price, and although lighter in weight and smaller in capacity than the "Pomona," we offer it as a thoroughly serviceable sprayer. The sprayer is held in place in the barrel by an adjustable clamp at the top fitting over the end of a stave, and an anchor at the bottom of the barrel. The plunger is packed from the outside, so it is not necessary to take the entire pump apart to repack.

Plunger, 2 inches diameter; stroke, 4 inches.

	List Price.	Our Special Price.
Fig. 1188.—Pump only with Agitator and Hose Couplings	\$12.00	\$7.50
Fig. 1188.— Outfit A. —Pump with Agitator, Hose Bands and Couplings and one Mistry, Jr. Nozzle for one lead of Hose, but without nozzle	13.00	8.00
Fig. 1188.— Outfit B. —Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle and 15-foot lead No. 1 Spray Hose	16.60	10.25
Fig. 1188.— Outfit C. —Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one 15-ft. lead No. 1 Spray Hose, fitted in barrel	21.60	12.75
Fig. 1188.— Outfit D. —Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one 15-foot lead No. 1 Spray Hose, 8-foot Iron Extension Rod with Brass Stop-Cock, fitted in Barrel	23.20	13.75
Fig. 1188.— Outfit E. —Pump with Agitator, Hose Bands and Couplings, Two Mistry, Jr. Nozzles, two 15-foot leads No. 1 Spray Hose	23.70	14.50
Fig. 1188.— Outfit F. —Pump with Agitator, Hose Bands and Couplings, two Mistry, Jr. Nozzles, two 15-foot leads No. 1 Spray Hose, fitted in Barrel	28.70	17.00
Fig. 1188.— Outfit G. —Pump with Agitator, Hose Bands and Couplings, two Mistry, Jr. Nozzles, two 15-foot leads No. 1 Spray Hose, two 8-foot Iron Extension rods with Brass Stop-Cocks, fitted in Barrel	32.30	19.00
Fig. 1188.— Outfit H. —Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one 15-foot lead No. 2 Wire Wound Spray Hose	18.00	11.00
Fig. 1188.— Outfit J. —Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one 15-ft. lead No. 2 Wire Wound Spray Hose, fitted in barrel	23.10	13.50
Fig. 1188.— Outfit K. —Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one 15-foot lead No. 2 Wire Wound Spray Hose, 8-foot Iron Extension Rod with Brass Stop-Cock, fitted in Barrel	24.70	14.50
Fig. 1188.— Outfit L. —Pump with Agitator, Hose Bands and Couplings, two Mistry, Jr. Nozzles, two 15-foot leads No. 2 Wire Wound Spray Hose	26.70	16.00
Fig. 1188.— Outfit M. —Pump with Agitator, Hose Bands and Couplings, two Mistry, Jr. Nozzles, two 15-foot leads No. 2 Wire Wound Spray Hose, fitted in Barrel	31.70	18.50
Fig. 1188.— Outfit N. —Pump with Agitator, Hose Bands and Couplings, two Mistry, Jr. Nozzles, two 15-foot leads No. 2 Wire Wound Spray Hose, two 8-foot Iron Extension Rods with Brass Stop-cocks, fitted in Barrel	35.30	20.50
No. 1 Spray Hose, in longer lengths, per foot	.24	.15
No. 2 Spray Hose, in longer lengths, per foot	.34	.20

Fig. 1100.
Weight,
66 lbs.

Gould's Pomona Spray Pump

Plunger—Diameter, 2½ inches; stroke, adjustable to 3, 4, 5 inches; discharge, ½-inch hose.

Outside Packed Plungers. No Leather Packings.

For small orchards of a few acres; a good barrel sprayer that will meet every requirement. The factory has devoted much time to the study of practical barrel sprayers, and it is with the utmost confidence we list the "Pomona" as first in our complete line. All of the working parts are solid bronze.

The pump has a steel air chamber, extending from top of pump to valve chamber, making it easy to get up sufficient pressure to continue spraying for some time after pumping has stopped. It is equipped with a long adjustable handle. The pump may be placed in any length barrel, as the barrel plate is adjustable. The agitator is simple, but very effective.

	List Price.	Our Special Price.
Fig. 1100.—Pump only with Agitator and Hose Coupling	\$20.50	\$12.50
Fig. 1100.— Outfit A. —Pump with Agitator, Hose Bands and Couplings and one Mistry, Jr. Nozzle for one lead, but without Hose	22.50	13.50
Fig. 1100.— Outfit B. —Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle and 15-foot lead No. 1 Spray Hose	26.10	15.75
Fig. 1100.— Outfit C. —Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one 15-foot lead No. 1 Spray Hose, fitted in barrel	31.10	18.25
Fig. 1100.— Outfit D. —Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one 15-ft. lead No. 1 Spray Hose, 8-foot Iron Extension Rod with Brass Stop-Cock, fitted in Barrel	32.70	19.25
Fig. 1100.— Outfit E. —Pump with Agitator, Hose Bands and Couplings, Two Mistry, Jr. Nozzles, two 15-foot leads No. 1 Spray Hose	32.55	20.00
Fig. 1100.— Outfit F. —Pump with Agitator, Hose Bands and Couplings, 2 Mistry, Jr. Nozzles, 2 15-ft. leads No. 1 Spray Hose, fitted in Barrel	37.95	22.50
Fig. 1100.— Outfit G. —Pump with Agitator, Hose Bands and Couplings, Two Mistry, Jr. Nozzles, two 15-foot leads No. 1 Spray Hose, two 8-foot Iron Extension Rods with Brass Stop-Cocks, fitted in Barrel	41.15	24.50
Fig. 1100.— Outfit H. —Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one 15-foot lead No. 2 Wire Wound Spray Hose	27.60	16.50
Fig. 1100.— Outfit J. —Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one 15-foot lead No. 2 Wire Wound Spray Hose, fitted in Barrel	32.60	19.00
Fig. 1100.— Outfit K. —Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one 15-foot lead No. 2 Wire Wound Spray Hose, 8-foot Iron Extension Rod with Brass Stop-Cock, fitted in Barrel	34.20	20.00
Fig. 1100.— Outfit L. —Pump with Agitator, Hose Bands and Couplings, two Mistry, Jr. Nozzles, two 15-foot leads No. 2 Wire Wound Spray Hose	35.95	21.50
Fig. 1100.— Outfit M. —Pump with Agitator, Hose Bands and Couplings, two Mistry, Jr. Nozzles, two 15-foot leads No. 2 Wire Wound Spray Hose, fitted in Barrel	40.95	24.00
Fig. 1100.— Outfit N. —Pump with Agitator, Hose Bands and Couplings, two Mistry, Jr. Nozzles, two 15-foot leads No. 2 Wire Wound Spray Hose, two 8-foot Iron Extension Rods with Brass Stop-Cocks, fitted in Barrel	44.15	26.00
No. 1 Spray Hose, in longer lengths, per foot	.24	.15
No. 2 Spray Hose, in longer lengths, per foot	.34	.17

ALWAYS ORDER BY FIGURE AND NUMBER WHERE GIVEN

GOULD'S ADMIRAL AND VICE-ADMIRAL SPRAY PUMPS

Diameter Cylinder, 2½ inches; Suction Hose, 1 in.; Discharge Hose, ½ in.

Double-acting and of sufficient capacity to supply four leads of hose or two leads each of two, three or four nozzles.

Have a removable brass lining, which can be quickly withdrawn by removing cylinder head. The brass piston rod is outside guided, making a perfectly straight thrust through the stuffing box. The bronze valves and bronze seats easily reached for examination. Air chamber is large. There are two discharge openings fitted for ½-inch hose.

Our List. Special Price. Price.

Admiral, Fig. 1508—Pump only with Suction Strainer and Hose Coupling. \$40.00 \$23.50

Fig. 1508. Outfit A—This outfit includes Pump, Suction Strainer, one Mistry, Jr., Nozzle, Hose Bands and Couplings for one lead, but without Hose. 42.00 25.00

Fig. 1508. Outfit B—This outfit includes Pump, Suction Strainer, two Mistry, Jr., Nozzles, Hose Bands and Couplings for two leads, but without Hose. 46.00 27.50

Fig. 1508. Outfit C—This is the same as Outfit A, except with one 25-foot lead No. 1 ½-inch Discharge Hose and 5 feet 1-inch Hard Rubber Suction Hose. 50.00 30.00

Fig. 1508. Outfit D—This outfit is the same as Outfit B, except with two 25-foot leads No. 1 ½-inch Discharge Hose and 5 feet 1-inch Suction Hose. 60.00 36.25

Fig. 1508. Outfit G2—This outfit is the same as Outfit A, except with one 25-foot lead No. 2 ½-inch Wire Wound Discharge Hose and 5 feet 1-inch Suction Hose. 52.50 31.25

Fig. 1508. Outfit H2—This outfit is the same as Outfit B, except with two 25-foot leads No. 2 ½-inch Wire Wound Discharge Hose and 5 feet Suction Hose. 65.00 38.75

Vice-Admiral, Fig. 1509—Is the same as the Admiral above except it is fitted with Pittman that it may be readily attached to gasoline engine.

Fig. 1509—Pump only with Suction Strainer and Hose Coupling. 40.00 23.50

Fig. 1509. Outfit K—This outfit includes Pump, Suction Strainer, Hose Bands, Couplings, two Brass Y Connections, four Mistry, Jr., Nozzles, Pressure Gauge, Water Relief Valve, two 25-foot leads No. 1 ½-inch Discharge Hose and 10 feet 1-inch Hard Rubber Suction Hose. 76.00 45.00

Fig. 1509. Outfit K2—This outfit is the same as Outfit K, except fitted with two 25-foot leads No. 2 ½-inch Wire Wound Discharge Hose. 81.00 47.50

The Gould's new "Sturdy" is a high-grade, two-cylinder, single-acting power spray pump, provided with a worm gear so it can be coupled directly to the engine shaft, as shown on page 16. No jack or extra gearing is necessary.

The gear ratio is 8½ to 1, and the pump is, therefore, suitable for direct connection to engines with speeds of 400 to 600 revolutions per minute. At 50 revolutions per minute the pump has a capacity of 3.40 gallons per minute; at 60 revolutions, 4 gallons, and at 75 revolutions, 5 gallons per minute. It is good for pressures up to 250 pounds. The plungers are heavy drawn brass tubing, outside packed. They are 2 inches in diameter, with a stroke of 2½ inches. The connecting rods are malleable iron. The shaft is steel, and a steel ball thrust bearing is provided to take up the end thrust. The valves and bevel seats are cast bronze. The suction is for 1-inch pipe or hose and the discharges are for ¾- or ½-in. hose.

All gears are completely enclosed, thus reducing danger of breakage and preventing wear from foreign particles. The air chamber is large, enabling a uniform high pressure to be maintained, and is cored to allow the driving shaft to extend through far enough to operate an agitator. The agitator can be either direct connected or driven by chain and sprocket. The crank pins are extended through the connecting rods to allow for operating a reciprocating agitator. A special flexible coupling is furnished with the pump for connection to the engine. This allows the pump to be operated even when it is not in perfect alignment with the engine shaft. The cylinders and valve boxes are cast separate, making replacements easy whenever repairs are necessary. The valve box covers are held in place by a single bolt, making the valves easily accessible. A drain plug is located at the base to permit the pump to be cleaned out occasionally, and to be drained when not in use. The pump is very compact; the width over all is 14½ inches; the height 19¼ inches, and the length to the end of the shaft is 18½ inches.

Pump with Strainer and Hose Couplings	CYLINDERS		SUCTION	DOUBLE DISCHARGE ½-inch Hose	*Regularly furnished with flexible coupling	APPROX. WT. LBS.	LIST PRICE	OUR SPECIAL PRICE
	Diam.	Stroke						
	2-ins.	2½-ins.	1-inch Hose	½-inch Hose		120	\$60.00	\$36.00

Outfit S. Pump with flexible coupling, pressure gauge, water relief valve 10 ft. 1 in. rubber suction hose and strainer, Fig. 70½, 4 7/16 in. diameter; two 25-ft. lengths of ½-in. discharge hose and couplings; two brass Y connections and four "Mistry, Jr." nozzles with fine discs. 95.00 60.00

Additional suction and discharge hose furnished at extra cost, if ordered.

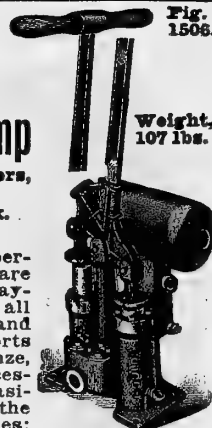
*When pump is to be direct connected to engine, the diameter of the engine shaft should be given when ordering pump. Pulley furnished instead of flexible coupling, if ordered, at extra cost, depending on size.

GOULD'S Improved "MONARCH" Two-Cylinder Spray Pump

Vertical Outside Packed, Bronze Plungers, Bronze Glands, Valves, Etc.

High-Grade Sprayer for Orchard Work. Also for Whitewashing.

Fig. 1506—Has two bronze plungers operating in two vertical cylinders, which are packed with a material unaffected by spraying solutions. This construction permits all gritty particles to pass through valves and out; does not grind the cylinder. Ports are large and direct. Valves are bronze, ground to fit their bronze seats, are accessible through hand-holes. This is the easiest operated pump of its capacity on the market. Diameter of Cylinder, 2 inches; Suction Hose, ¾ in.; Discharge Hose, ½ in.



Weight, 107 lbs.

Fig. 1506—Pump only with Suction Strainer and Hose Coupling. \$33.00 \$20.00

Fig. 1506. Outfit A—This outfit includes Pump, Suction Strainer, one Mistry, Jr., Nozzle, Hose Bands and Couplings for one lead, but without Hose. 25.00 21.50

Fig. 1506. Outfit B—This outfit includes Pump, Suction Strainer, two Mistry, Jr., Nozzles, Hose Bands and Couplings for two leads, but without Hose. 38.00 23.00

Fig. 1506. Outfit C—This outfit is the same as Outfit A, except with one 15-foot lead of No. 1 ½-inch Discharge Hose and 5 feet ¾-inch Suction Hose. 40.30 24.75

Fig. 1506. Outfit D—This outfit is the same as Outfit B, except with two 15-foot leads No. 1 ½-inch Discharge Hose and 5 feet ¾-inch Suction Hose. 46.90 28.50

Fig. 1506. Outfit G2—This outfit is the same as Outfit A, except with one 15-foot lead No. 2 Wire Wound ½-inch Discharge Hose and 5 feet ¾-inch Suction Hose. 41.80 25.50

Fig. 1506. Outfit D2—This outfit is the same as Outfit B, except with two 15-foot leads No. 2 Wire Wound ½-inch Discharge Hose and 5 feet ¾-inch Suction Hose. 49.90 30.00

If Pressure Gauge is wanted, add. 3.60 2.25

GOULD'S "STURDY"

Duplex Power SPRAYER, with Worm Gear for Direct Connection to Engine Shaft

THE "STURDY"

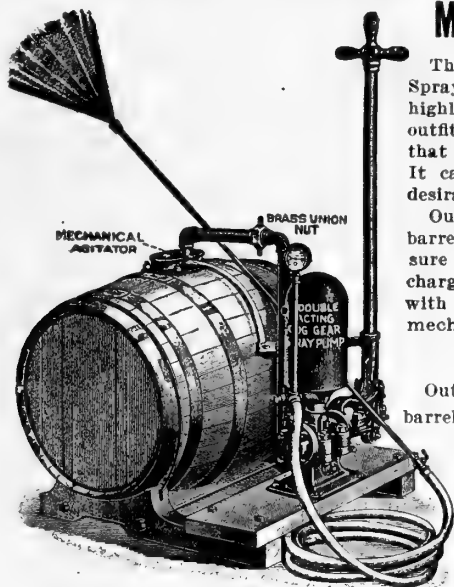
Fig. 1631



1631—With Flexible Coupling.

ALWAYS ORDER BY FIGURE AND NUMBER WHERE GIVEN

DOUBLE ACTING SPRAY PUMP MOUNTED ON SKIDS



The general construction of this Spray Pump Outfit cannot be too highly commended. This desirable outfit meets the demand for a pump that can be used in a wagon or cart. It cannot upset. One of the most desirable outfits on the market.

Outfit A—Pump, complete, 50-gal. barrel mounted on skids, with pressure gauge; one 15-ft. lead $\frac{1}{2}$ -in. discharge hose, 8-ft. pipe extension with lever shut-off, spray nozzle and mechanical agitator.

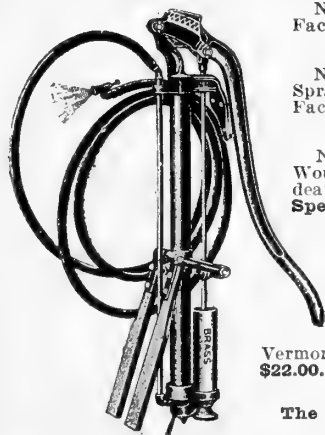
Price, \$25.00.

Outfit B—Pump, complete, 50-gal. barrel mounted on skids, with pressure gauge; two 15-ft. leads of $\frac{1}{2}$ -in. discharge hose, 8-ft. pipe extension with lever shut-off, spray nozzles and mechanical agitator.

Price\$28.00

BRASS BARREL SPRAY PUMPS

Cylinder Valves, Valve Seats and Discharges, All Brass.



No. 304—Pump only, without hose or nozzle. Factory List Price, \$9.50.

Our Special Price.....\$7.25

No. 305—Pump, with 15 feet No. 1 $\frac{1}{2}$ -inch Spray Hose and Vermorel or Bordeaux Nozzle. Factory List Price, \$14.25..

Our Special Price.....\$10.25

No. 305A—Pump, with 15 feet No. 2 Wire-Wound $\frac{1}{2}$ -inch Spray Hose and Vermorel or Bordeaux Nozzle. Factory List Price, \$15.75. **Our Special Price.....\$11.00**

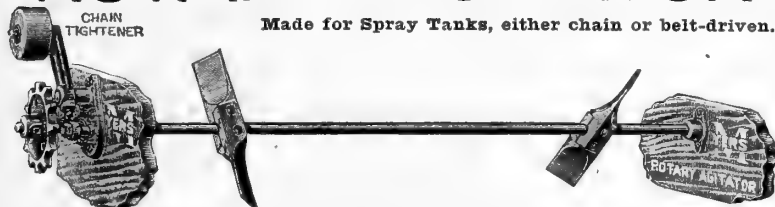
No. 306—Pump, with two 15 feet leads of No. 1 $\frac{1}{2}$ -inch Spray Hose and two Vermorel or Bordeaux Nozzles. Factory List Price, \$19.00. **Our Special Price...\$13.00**

No. 306B—Pump, with two 15 feet leads of No. 2 Wire-Wound $\frac{1}{2}$ -inch Hose and two Vermorel or Bordeaux Nozzles. Factory List Price, \$22.00. **Our Special Price.....\$14.50**

The above prices include Paddle Agitator.

ROTARY AGITATOR

Made for Spray Tanks, either chain or belt-driven.

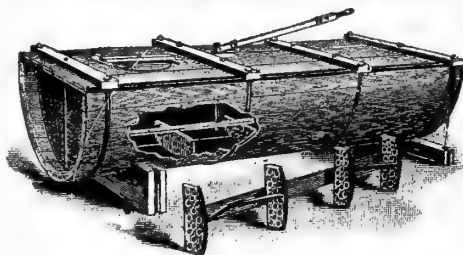


This Rotary Agitator is made similar to propellers used to drive motor boats, consisting of a steel shaft running lengthwise of the tank, fitted with two rotary blades, which drive the mixture in opposite directions, thus causing a thorough agitation of the material.

Fig. 1598 illustrates the Agitator as made to be driven by sprocket chain direct from the engine.....**\$10.00**

Fig. 1558 illustrates the Agitator as made to be driven by means of a belt**\$10.00**

SPRAYING TANK



We are having our Spray Tanks made of $\frac{1}{2}$ -inch clear pine, which has proven to be the best material for this purpose. The tanks are gripped with steel rods.

Style No. 4—Weight, 200 lbs.; capacity, 200 gallons; dimensions, 5 feet 2 inches long, 3 feet 4 inches wide, 2 feet 5 inches high.

Price, complete with Agitator and Bolsters, \$20.00
Other sizes quoted on application.

GOULDS FIELD CROP SPRAYER

Used in Connection With Any Hand
or Power Spray Pumps



The best and cheapest crop sprayer on the market. Easily attached to tail-board of a wagon, and when not in use can be folded into small space. It is made to spray four or six rows, any distance apart, up to 44 inches, or cover a space $14\frac{1}{2}$ or 22 feet in width. Connection allows sprayer to be easily raised or lowered; spray to be thrown forward, backward, up or down.

Figure 1322.

Complete with four "Mistry, Jr.," Nozzles and coupling for connecting to discharge hose of any barrel or power sprayer. List Price, \$19.00. **Our Special Price.....\$12.00**

same, with 6 "Mistry, Jr.," Nozzles. List Price, \$22.50. **Our Special Price.....\$13.00**

Connection which clamps to wagon. It is adjustable to any height.



This illustration shows the crop-spraying attachment attached to a wagon. The above prices do not include the sprayer.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

LITTLE GIANT TRACTION SPRAYER

In the selection of a Spraying Outfit there are three main points to consider—the type best adapted to the requirements it has to meet, principle used in its construction and the material and workmanship.

A good sprayer must have sufficient pressure to cover the vegetation with a very fine mist. The machine should be built as simply as possible, with the greatest accessibility to each part, and the material and workmanship should be of the highest grade to successfully withstand the wear and tear which the machines are necessarily subjected to.

The pump is the "Heart of the Sprayer," and every Little Giant Sprayer is built around the mechanically-correct Little Giant Pump, which was designed especially for spraying purposes, and is not an adaptation of a general-purpose pump to attain the desired results.

The Little Giant No. 26 is equipped with a 50-gallon barrel tank, and the Little Giant No. 28 is equipped with tank made from the best heart cypress, $\frac{7}{8}$ of an inch thick, 65-gallon capacity.

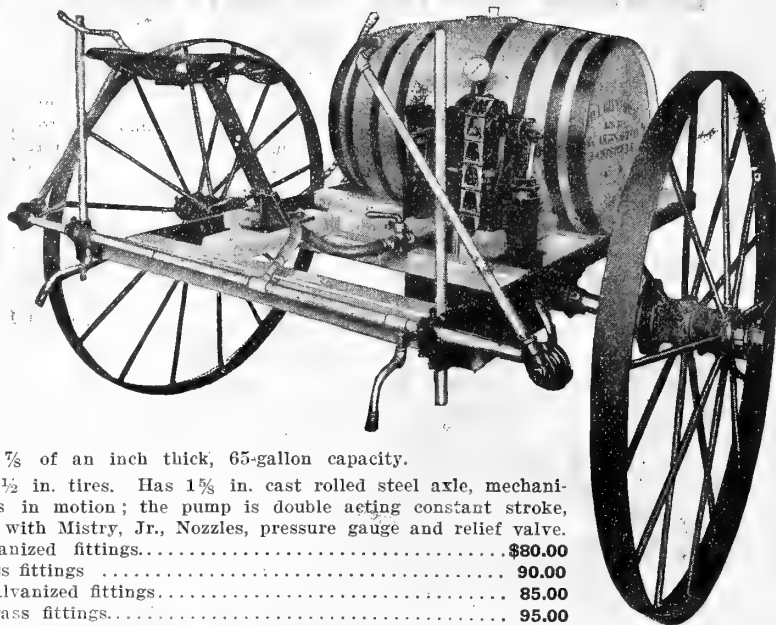
The wheels are wrought steel, 44 in. high, with $2\frac{1}{2}$ in. tires. Has $1\frac{1}{2}$ in. cast rolled steel axle, mechanical agitator that operates whenever the machine is in motion; the pump is double acting constant stroke, with brass plunger and valves, four-row boom equipped with Mistry, Jr., Nozzles, pressure gauge and relief valve.

No. 26—50 gal., oak barrel, 4-row Sprayer, with galvanized fittings.....\$80.00

No. 26—50 gal., oak barrel, 4-row Sprayer, with brass fittings.....90.00

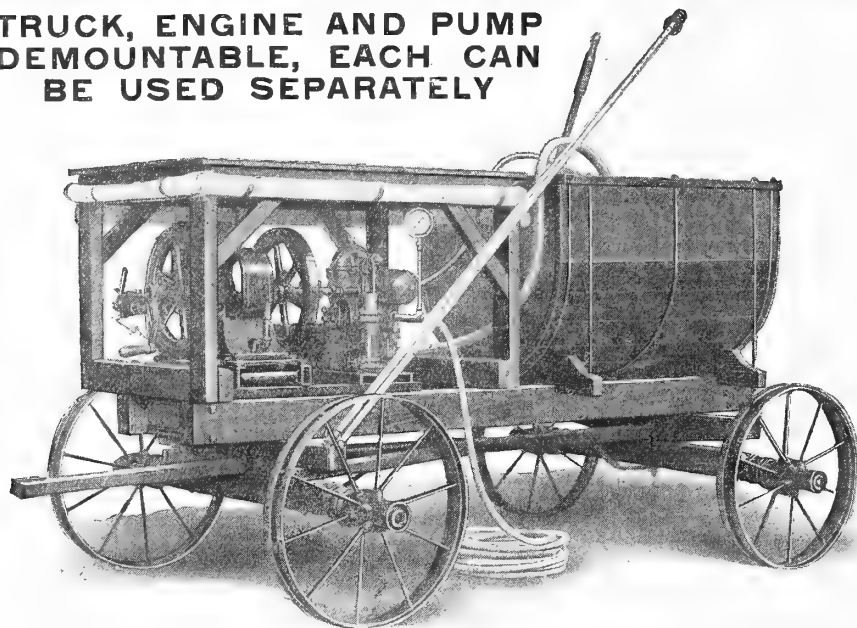
No. 28—65 gal., cypress tank, 4-row Sprayer, with galvanized fittings.....85.00

No. 28—65 gal., cypress tank, 4-row Sprayer, with brass fittings.....95.00



GRIFFITH & TURNER POWER SPRAYER THE BEST That Can Be Built

TRUCK, ENGINE AND PUMP
DEMOUNTABLE, EACH CAN
BE USED SEPARATELY



Having in mind the great principle of economy, we have made this outfit to meet the demand for an efficient, practical sprayer. Our object is to give the most for the money, and at the same time give an outfit so constructed that each unit will be of constant use and value. The engine used is a $2\frac{1}{2}$ H. P. Type W. Fields gasoline engine, with made-in magneto. The pump is the Gould's Sturdy Worm Gear, direct shaft-driven, with flexible coupling. 150-gallon white pine tank, with lever agitator, mounted on an independent frame, and then mounted on a handy steel wheel low down farm truck.

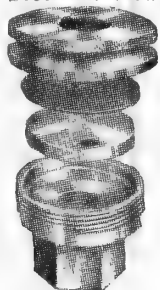
The mounting is so constructed that the engine can be removed for other farm work. By taking out four bolts, the truck can be removed, thus giving the use of the engine and truck the balance of the time. These conveniences merit your consideration. While we are placing before you a power sprayer of the highest efficiency, we have also kept the price to a minimum.

- Outfit A**—Goulds Sturdy Worm Gear Direct Shaft-Driven 2-Cylinder Power Sprayer, with flexible couplings, pressure gauge, water relief valve, 8 ft. relief hose, 8 ft. 1 in. suction hose and strainer, two 25-ft. leads, No. 2 wire-wound $\frac{1}{2}$ -in. spray hose and couplings, two Mistry, Jr., Spray Nozzles, two 10-ft. bamboo brass-lined extension rods, with shields and brass stop-cocks. 150-gallon white pine spray tank, with lever agitator. $2\frac{1}{2}$ H. P. Field Type W. Gasoline Engine, with built-in magneto. Engine and pump protected with canopy, with heavy canvas curtains, mounted on skids.....\$175.00
- Outfit B**—Same as Outfit A, but mounted on Low-Down Handy Steel Wheel Farm Truck.....200.00
- If rotary agitator is wanted, add.....10.00
- If rotary tank-filling pump is wanted, add.....10.00
- If 10-foot tower is wanted, add.....10.00
- If neck yoke, single and double trees are wanted, add.....2.50

SPRAY PUMP ACCESSORIES

MISTRY JR. NOZZLE

Sectional View.



THE BEST NOZZLE YET.



The Mistry Jr. Nozzle is made in both Aluminum and Brass with hardened tool steel disks in discharge cap. The steel disks can be inserted without the least trouble.

This nozzle has been tested under all conditions, and found to give entire satisfaction. It produces a perfect mist and covers a wide area. This nozzle is in our opinion the best that can be had. Brass, with extra steel disk.....\$0.75 Aluminum, with extra steel disc.....85 Can also supply these nozzles with 45-degree angle. Same prices as above.

Extra Steel Disks for Mistry, Jr. Nozzle.....5c. Extra Caps for Mistry, Jr., Nozzle 30c.

DEMING VERMOREL NOZZLE



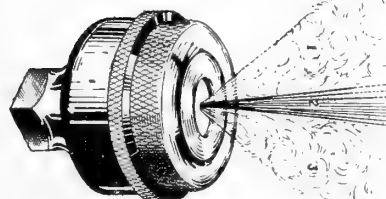
Fig. 963.

This is an improvement on the old style Vermorel Nozzle; spray is finer and more evenly distributed. The cap with smaller hole makes finer spray.

Price, with extra cap, 75c. each.

Fig. 55—Gould's Vermorel Nozzle, each, One Discharge, 75c.; Two Discharges, \$1.75; Three Discharge...\$2.50 Caps for above, 15c. each.

NON CLOG ATOMIC NOZZLE



The Non-Clog Atomic Nozzle can be adjusted to throw every gradation of spray from a fine wide angle bell shape 18 inches from the nozzle mouth, covering a surface of over three feet, to a concentrated and heavier spray, throwing a distance of 20 feet. Four Disks go with each nozzle.

Price:

Non-Clog Atomic Nozzle—brass...\$1.00 Non-Clog Atomic Nozzle—alum...1.25 Brass Elbow, 45 degrees.....20

ORIGINAL DEMING BORDEAUX NOZZLE



An excellent nozzle for white-washing.

The Bordeaux Nozzle can be readily changed from a solid stream to a mist-like, fan-shaped spray. Should there be any clogging of the nozzles with the spray material, it is easily remedied by turning the handle.

Price...75c.

MIST NOZZLE Fig. 1317



Self-Cleaner or Degorger. Pressing nozzle against tree does the work in an instant. The pressure forces it open.

ready for use. Capacity equal to two ordinary Vermorel nozzles. Will spray whitewash as well as the lighter tree-spraying solutions. 1.00.

PRESSURE GAUGE

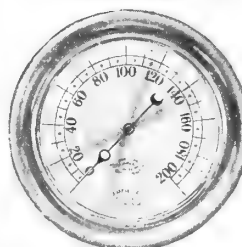


Fig. 30 1/2.

Brass Pin, 3 1/2-inch Silvered Dial, with black figures. Up to 200-pound pressure, with stop-cock.

Price...\$2.25.

FUNNEL STRAINER



For straining spray solutions. Heavy Tin Strainer, with Brass Mesh. Price...\$1.50

Heavy Galvanized Strainer with Brass Mesh.....\$1.75

BRASS HOSE NIPPLES



Fig. 89.

Used in attaching hose to spray pump or iron pipes. Solid Brass.

Fig. 89—Brass Hose Nipple, one end with male pipe thread, other end, with hose thread.

1/2-in. or 3/4-in. hose, 3/4-in. iron pipe	25
1/2-in. or 3/4-in. hose, 1-in. iron pipe	25
1/2-in. or 3/4-in. hose, 1 1/4-in. iron pipe	50
1-in. hose, 1-in. iron pipe	50
1-in. hose, 1 1/4-in. iron pipe	50

LEVER SHUT-OFF COCK.

NO DRIPPING

Fig. 64.



Fig. 64—Lever Shut-off Cock, all brass. Made for use with Pipe Extension. Requires quarter turn only to shut off completely. This quick action makes it a practical device for the purpose. Tapped 1/4-inch pipe size. Price, each, 65c.

LONG SHANK HOSE COUPLING



Fig. 67—Brass coupling, has one end cut 1/4-inch gas pipe and other end shank to wire into hose. Made from solid brass. Price, each, 25c.

BRASS Y FOR USING 2 NOZZLES



Fig. 1074 1/2—Brass Y, designed so that two nozzles can be used with one lead of hose; is tapped to fit 1/4-inch pipe at butt, which also adapts it to fit our Figs. 65 and 67 couplings for hose.

Price.....50c.

45° BEND BRASS Y



Fig. 1584—Brass Y similar to 1074 1/2, but with the two branches of the Y bent as shown.

Price.....50c.

BRASS Y



Fig. 49 1/2.

Brass Y is cut 3/4-in. Female Hose inlet, with lateral discharges to fit 1/2- and 3/4-in. Hose Couplings.

Price.....80c.

60° BRASS ELBOW



Fig. 1107—Sixty degree brass elbow, threaded both ends 1/4-inch pipe for use with any nozzle.

Price.....25c.

REDUCING COUPLING

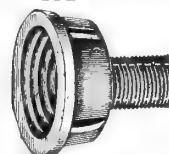


Fig. 65—Coupling, small end cut 1/4-inch pipe thread to fit our spray nozzles, large end cut to fit 3/4-inch, 1/2-inch or 3/4-inch male hose or coupling.

SPRAY PUMP ACCESSORIES

HOSE COUPLING



Fig. 504.

These Hose Couplings are made from brass, thoroughly machined, and are in perfect shape. The $\frac{1}{4}$ -inch are made from spun brass, and are very light and neat, assuring a large flow of water, as the opening is not reduced.

Fig. 504—Brass Hose Couplings:
 Size, inches. $\frac{1}{4}$ $\frac{3}{4}$ 1 $1\frac{1}{2}$
 Complete .15c. 15c. 25c. \$1.00 \$2.00
 Female half 10c. 10c. 17c. .65 1.30

HOSE COUPLING

Fig. 1284.



BRASS HOSE COUPLINGS, FIG. 1284.

Fig. 1284 is a special Brass Hose Coupling, made with double length nipples, with heavy ribs, of sufficient length to use two hose bands if necessary. Especially adapted for use with Power Spray Pumps. Made in $\frac{1}{2}$ -in. size. Price, each.....40c.

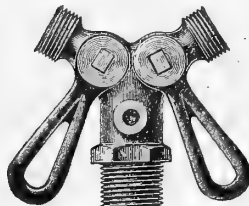
Sherman's Brass Hose Clamps

Fig. 1272,
Brass Hose
Clamps,

each, $\frac{1}{2}$ -in., 5c.;
 $\frac{3}{4}$ -in., 5c.; 1-in.,
 10c.; $1\frac{1}{4}$ -in.,
 15c.; $1\frac{1}{2}$ -in.,
 20c.; 2-in.....25c.

DOUBLE CUT-OFF

Double Cut-off, Fig. 1304.

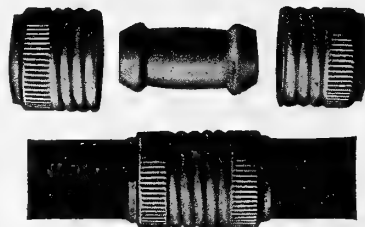


It is much simpler than two single cut-off valves, and is fitted for $\frac{3}{4}$ or $\frac{1}{2}$ -in. hose couplings on the discharge ends, and 1-in. pipe thread on the inlet. No cap is needed, as either line of hose may be shut off without affecting the other, or both may be turned on, or both shut off. No spray pump should be used without one.

Price, each.....\$2.50

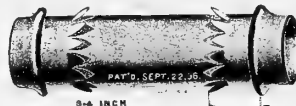
HOSE WASHERS.

Rubber, $\frac{1}{2}$ -in. or $\frac{3}{4}$ -in., ea., 2c.; doz. \$.10
 Leather, $\frac{1}{2}$ -in. or $\frac{3}{4}$ -in., ea., 3c.; doz. .15
 Selden's Packing for repacking spray pump cylinders, per pound..... 2.00

THE SURE SHUT
HOSE MENDER

The simplest, strongest and best device on the market for repairing leaky hose. No tools whatever are necessary to attach it. Can be put on with the hands alone in less than a minute. Makes an absolutely water-tight connection. Is made entirely of brass, will not rust. Will fit any make of hose. Can be detached and used over and over again. Made for $\frac{1}{2}$ -inch and $\frac{3}{4}$ -inch hose. Price, each set.....\$.15
 Price, dozen sets..... 1.50

COOPER HOSE MENDER



No clamps necessary. Impossible to pull out of hose. Each, 10c.; dozen.....\$1.00

Fig. 1346.

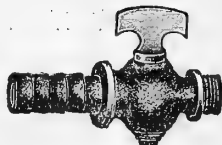
Relief Valves

FOR POWER SPRAY
AND OTHER POWER
PUMPS.

$\frac{3}{4}$ -inch\$2.80
 1-inch 4.20
 $1\frac{1}{4}$ -inch 5.25
 $1\frac{1}{2}$ -inch 7.00



STOP-COCK



and knapsack pumps.

Price65c.

This stop-cock is made with shank for $\frac{1}{2}$ -in. hose, with $\frac{1}{4}$ -in. pipe thread to fit any nozzle or spray rod. It is generally used with small hand

ADJUSTABLE SWIVEL ELBOW



is especially recommended when spraying for the Codling Moth. Can adjust the nozzle to any angle with this elbow. Price.....\$1.00

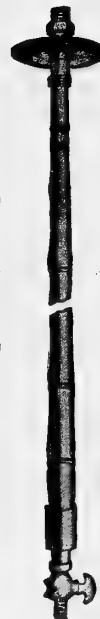
EXTENSION
SPRAY
RODS

Fig. 1536.

FIG. 1535

FIG. 480

Fig. 480—8-foot pipe extension, with couplings\$.50
 Fig 1534—8-foot pipe extension, with stop-cock 1.00
 Fig. 1536—8-foot bamboo extension, without shut-off..... 2.25
 Fig. 1536—8-foot bamboo extension, with lever shut-off cock..... 2.80
 Fig. 1536—10-foot bamboo extension, without shut-off..... 2.25
 Fig. 1536—10-foot bamboo extension, with lever shut-off cock..... 2.80
 The Bamboo Extension, as illustrated by Fig. 1536, is made of selected bamboo, 8 ft., 10 ft. in length, through which is placed a special brass tube of 5-16 inch inside diameter; the shut-off lever and male end are attached to the brass tube by heavy threads (no solder) and has wide shield at top to prevent running down the pole.

Rubber Gloves



EXTRA HEAVY, ALL-RUBBER, SEAMLESS, "HI-VOLTAGE" ELECTRICIAN'S GLOVES.

Just the thing to handle the poisonous chemicals used in the different spraying mixtures. Can be worn with canvas gloves inside or outside.

Price.....\$2.50

Parcel post weight of article on this page 1 pound.

HOSE NOZZLES



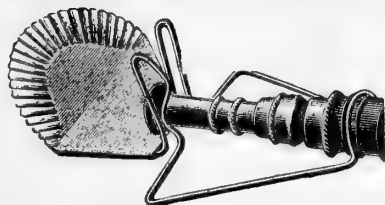
**JUSTRITE
SPRAY NOZZLE**

This nozzle is made from solid brass and is adjustable for all kinds of spraying, from solid stream to the finest spray, or can be shut off entirely.

1/2 in. Justrite Nozzle40c.
 1 in. Justrite Nozzle80c.
 3/4 in. Stub Hose Nozzle.....50c.

Parcel Post Weight 1 Pound.

CRESCENT WAVE SPRINKLER



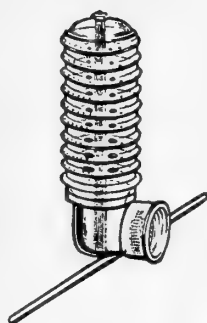
It is attachable to any nozzle. Can be operated from the hand. Supports nozzle in position when placed upon the ground. Distributes water evenly and in a shower-like manner.

Permits of full flow from the nozzle, thus lessening the liability of bursting the hose. May be shifted without closing hydrant.

No treading on wet grass when shifting. Not necessary to detach when reeling hose.

Durable and never out of order. Price25c.

Parcel Post Weight, 1 Pound.



"B" LAWN SPRINKLER

Attaches to the hose and stands upright. It is so constructed that it will sprinkle over a square surface, getting into the corners, impossible with other sprinklers. You can water up to the porch or into the corner of the steps without wetting the porch. Made from brass.

Price\$1.75
 P. P. Weight, 1 lb.

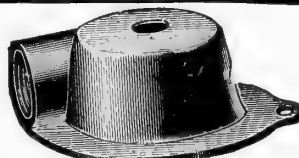
THE FOUNTAIN "SHOWER"

A Hose Nozzle with the "Mist-Like Spray"



This shower Sprinkler is the best thing for attaching to the hose to be used like a watering pot. It gives a fine gentle shower and does not injure the plants as a heavy stream might do.

P. P. Weight 1 lb.
 Price25c.



C. B. G. SPRINKLER

No. 54.

This is the cheapest and most effective sprinkler made. The distribution of water is perfect.

Parcel Post Weight, 1 Pound. Price25c.

REVOLVING SPRINKLER



These sprinklers are compactly and strongly made with phosphor-bronze bearing. Eureka Sprinkler, 12 in. high.....\$1.25
 Newport Sprinkler, 24 in. high.....2.25
 Biltmore Sprinkler, 36 in. high.....\$3.00
 Parcel Post Weight, 5 Pounds.



FOUNTAIN SPRINKLER

MADE OF HEAVY BRASS.

Easily moved over the lawn without turning off the water. The mist-like spray is a veritable "thing of beauty."

Parcel Post Weight, 2 Pounds. Price60c.

U.S. PLANT TUBS

These plant tubs are made from best grade cypress, with strong iron handles and feet. Just the thing for Palms, Rubber Plants, etc. Painted Green with Black Trimmings.



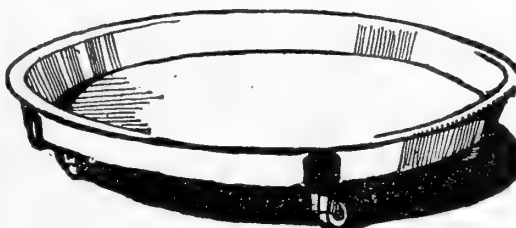
Painted Green.

No.	Outside Top Diameter.	Depth.	Price.
1.....	11 1/2	11 1/2	\$1.00
2.....	13 1/2	11 1/4	1.25
3.....	14 1/2	14	1.65
4.....	16	15	2.00
5.....	19	18	3.00
6.....	22	19 1/2	3.75
7.....	25	22	5.00

INDURATED FIBRE WARE

A light, strong material, impervious to moisture, moulded into one piece, seamless and rust-proof. Finished in a rich mahogany color.

Fibre-Ware Rolling Stand



Fibre-ware rolling stands are mounted upon ball-bearing casters and furnish an easy and ready means of moving heavy plants in permanent or temporary locations.

Outside Diameter	Will take tub diameter at bottom.	Price, Each.
16 inches.....	13 inches.....	\$1.15
18 inches.....	15 inches.....	1.25
20 inches.....	17 inches.....	1.50
22 inches.....	20 inches.....	1.85

FIBRE FLOWER POT SAUCERS

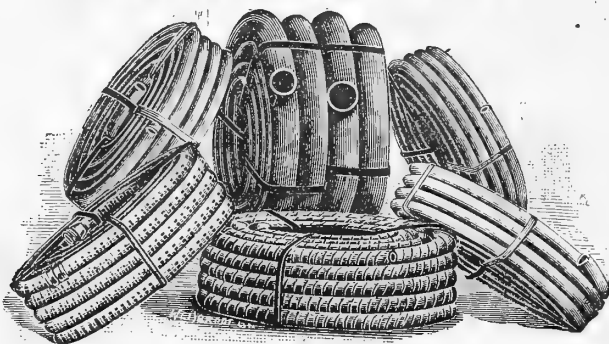


Cleaner and More Durable than Pottery.

Diameter.	Price, Each.	Per 100.
6 in.....	14c.....	\$12.50
7 in.....	15c.....	13.50
8 in.....	16c.....	14.50
10 in.....	18c.....	17.00
12 in.....	25c.....	20.00

RUBBER HOSE

GARDEN HOSE

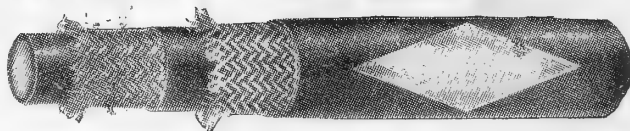


Our brands of Hose are all made up to our order, experience having taught us that High-Grade Hose is the cheaper. Low-Grade Hose will not give satisfaction.

These brands of Hose are guaranteed to be as represented, and have given our trade satisfaction for years.

	Per Ft.
ORIOLE. —5-ply, $\frac{3}{4}$ -in., in 25 and 50-foot lengths (75 lbs. pressure).....	\$0.12
GRIFFITH & TURNER CO.'S EXTRA. —3-ply, $\frac{3}{4}$ -in., in 25 and 50-foot lengths (80 pounds pressure).....	.14
GRIFFITH. —6-ply, $\frac{3}{4}$ -in., in 25 and 50-foot lengths* (125 pounds pressure).....	.15
CREST. —4-ply, $\frac{3}{4}$ -in., in 25 and 50-foot lengths (125 pounds pressure).....	.16
$\frac{3}{4}$ Hose comes in 25 and 50-foot lengths, coupled. We cannot cut other lengths.	

MOULDED GARDEN HOSE



Gritco Continuous Length Seamless Hose

The construction of this Hose is entirely different from regular Hose. Over a seamless tube of high-grade rubber is braided two plies of tightly twisted cotton yarn. Between each ply is placed a distinct layer of high-grade rubber.

The Hose is protected by a cover made of rubber specially compounded. It is vulcanized in patented moulds under very high pressure.

This Hose is manufactured in continuous lengths up to five hundred feet.

$\frac{3}{4}$ -inch, per ft., not coupled, 19c.; coupled, 20c.

HOSE FOR SPRAY PUMPS

We do not recommend a cheap Hose for spray work. Large sprayers, handling a high pressure should use our No. 2, $\frac{1}{2}$ -inch spray hose. This Hose is made especially for this work. It is extra strong and is wire wound, adding to its strength, and insuring long life, as the wire also protects it from rough usage.

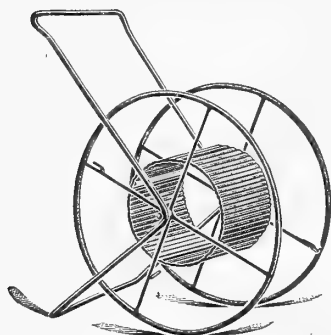
The No. 1, $\frac{1}{2}$ -inch Spray Hose will be found satisfactory for the various hand pumps.

Spray hose is made especially for spray pumps, being so constructed that spraying solutions have the least possible effect on them.

	Per Foot.
$\frac{1}{2}$ -inch Oriole.....	\$0.10 $\frac{1}{2}$
$\frac{1}{2}$ -inch Spray No. 1.....	.15
$\frac{1}{2}$ -inch Spray No. 2, wire-wound.....	.20
1-inch 3-ply Hose.....	.20
1-inch Hard Rubber Suction Hose.....	.25
2-inch Wire-Lined Suction.....	.45

$\frac{1}{2}$ -inch Hose comes in 10, 15, 25, 30 and 50-foot lengths. We cannot cut other lengths. 2-inch Hose comes in 5, 10 and 20-foot lengths.

HOSE REELS



No. 10 All-Steel Reel.

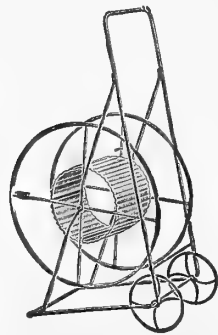
Diameter of wheels... 22 in.
Diameter of drum... 9 in.
Width between wheel... 10 in.
Length of handle... 28 in.
Capacity, 100 ft $\frac{3}{4}$ -in. hose.
Weight about 17 lbs.

The large wheels roll easily over rough or soft ground. Nothing to get out of order.

Rigid—Durable—Attractive.
Price.....\$1.70

The No. 20 Tubular—Wheels, 24 inches; weight, 20 pounds. Capacity, 150 feet $\frac{3}{4}$ -inch Hose.

Price.....\$4.00.

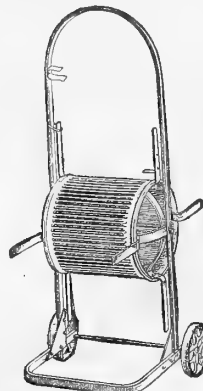


No. 20 All-Steel Reel.

Diameter of wheels... 7 in.
Diameter of reel... 20 in.
Diameter of drum... 9 in.
Width of drum... 10 in.
Height of handle... 39 in.
Capacity, 100 ft. $\frac{3}{4}$ -in. hose.
Weight about 25 lbs.

The weight of the hose is on the wheels, not on the hands, when being moved about. This reel is light, yet rigid and durable.

Price.....\$2.00



"Victor."

"VICTOR" REEL is constructed with channel steel frame; strong, cast-iron wheels; solid steel reel arms and 9-inch drum of heavy corrugated steel. Equipped with a ring on side of frame to prevent, when desired, the reel from unwinding;

and with adjustable clip at top of frame for holding nozzle when spraying.

Frame enameled green, wheels and reel black, making a very attractive appearance.

Weight, 12 $\frac{1}{2}$ lbs., bundled for shipping. Capacity, 100 ft. of $\frac{3}{4}$ -inch rubber hose.

Price.....\$1.60



No. 50.

Wood frame hose reel with round top.

Each... 75c.



No. 51.

Wood frame hose with square top.

Each... 75c.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

WATER TRUCKS AND COMBINATIONS WITH STEEL WHEELS

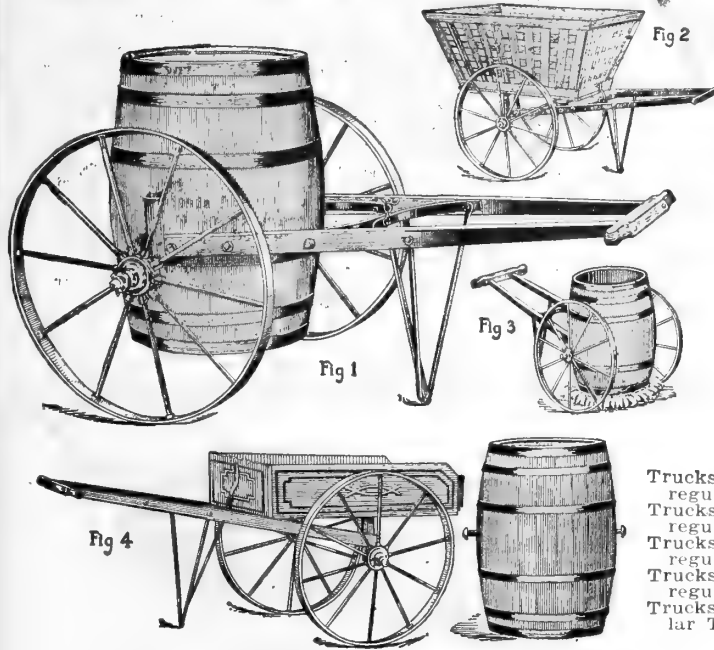


Fig. 1 represents our Barrel Cart, to which can be attached any of our Barrel Spray Pumps. This is a convenient combination, and may be found useful in various ways, such as watering gardens, spraying fruit trees, etc.

Fig. 2 shows Truck with Leaf Rack Attachment. Fig. 3 shows Truck and Barrel with Sprinkler Attachment.

Fig. 4 shows Truck and Box, with Barrel Detached. Dimensions: Height of Wheels, 2 ft. 2 1/2 in.; Distance between Trunnions, 2 ft. 2 1/2 in.; Width Tire, Steel, 1 1/2 in., 2 1/2 in., 3 1/2 in.; Wood, 1 1/2 in., 2 1/2 in., 4 inches.

Box Inside Measure Width, 22 1/2 in.; Length, 24 in.; Height, 8 1/2 in. Box has tail door.

Prices

	List Price.	Special Price.
Water Truck, with Regular 1 1/2-in. Tire Steel Wheels.....	\$10.60	\$6.50
Water Truck and Barrel.....	15.50	9.50
Water Truck and Box.....	15.50	9.50
Water Truck, Barrel and Box.....	20.50	12.50
Sprinkling Attachment.....	5.00	3.00
Leaf Rack.....	9.00	5.50
Barrel.....	5.00	3.00
Box.....	5.00	3.00
Trunnions, per pair.....	.75	.50
Trucks with 2 1/2-in. Tire Steel Wheels, add to regular Tire Truck.....	1.20	.75
Trucks with 3 1/2-in. Tire Steel Wheels, add to regular Tire Truck.....	2.40	1.50
Trucks with 1 1/2-in. Tire Wood Wheels, add to regular Tire Truck.....	.75	.50
Trucks with 2 1/2-in. Tire Wood Wheels, add to regular Tire Truck.....	2.10	1.30
Trucks with 4-in. Tire Wood Wheels, add to regular Tire Truck.....	3.40	2.25

Extra Truck Wheels.

	List Price.	Special Price.
1 1/2-in. Tire Steel Wheels, each.....	\$3.00	\$2.00
2 1/2-in. Tire Steel Wheels, each.....	4.00	2.50
3 1/2-in. Tire Steel Wheels, each.....	4.50	2.75
Axles, with Trunnion Holders, each.....	1.20	.75

Wheelbarrow Leaf-Rack Attachment



Can be attached to any style or size wheelbarrow with removable sides. Most convenient for gathering leaves, cut grass and rubbish. One of these attachments should be in use on every small suburban place, as well as the larger estates. Capacity, 10 bushels; made of galvanized wire, bolted to a wooden base. List Price, \$6.50; Our Special Price, \$4.00

Baltimore Lawn and Street Sprinkler

List, \$150. Retail, \$85.



Parks, Cemeteries and Country Places having a considerable amount of Roadway, Walks and Lawns will find that the Baltimore Lawn and Street Sprinkler will greatly improve their condition. For this purpose our Sprinkler will meet every requirement. It may also be used for carrying water and other purposes.

It is a substantial and well-made Sprinkler in every respect. Driver can operate it from the seat.

Capacity About 160 Gallons



BALTIMORE PUSH CART

For the merchant, printer, farmer, etc., to have one of these carts on his premises it will be found a most useful vehicle. There are so many purposes for which they can be employed—carrying bundles, printers' forms, farmers' tools and light implements, etc. It is never out of place, and always ready to pick up at short notice. They are nicely finished; higher wheels, better ironed and altogether superior to anything of its kind on the market. There is now an immense demand for these carts, but notwithstanding we have placed the price low.

Retail, \$7.75 List, \$13.50
Extra wheels, each—List, \$4.50. Retail, \$2.75.

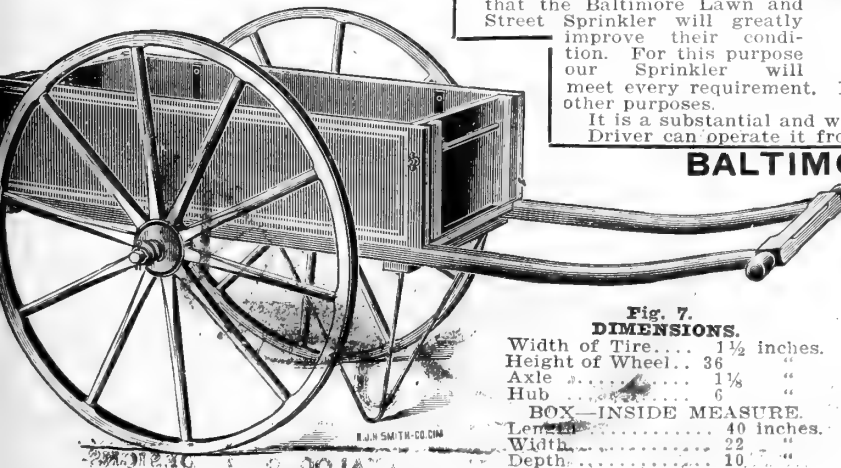
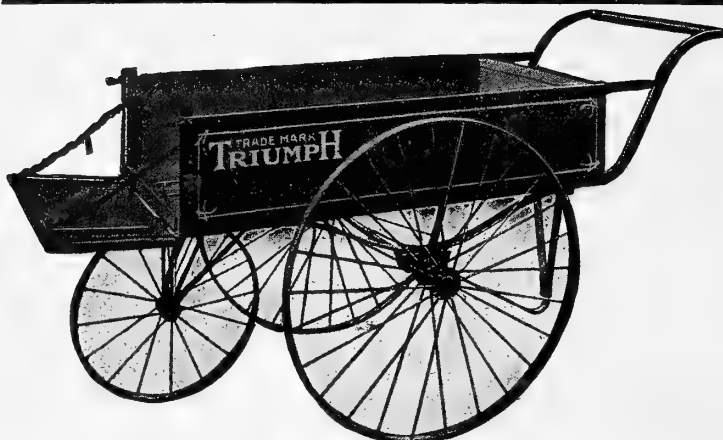


Fig. 7. DIMENSIONS.

Width of Tire.....	1 1/2 inches.
Height of Wheel.....	36 "
Axle.....	1 1/2 "
Hub.....	6 "
BOX—INSIDE MEASURE.	
Length.....	40 inches.
Width.....	22 "
Depth.....	10 "



TRIUMPH CART No. 3TG3

Triumph Cart No. 3TG3 is built to meet the demand for a high-grade cart at a reasonable price.

The bottom is a substantial framework of hard wood, side and end sills bolted at all four corners, two extra hardwood center sills, full length, giving added support to floor and front wheel brackets.

The gear equipment including Springs, Axles and Wheels are of sufficient strength and rigidity to stand the wear and tear so often placed upon a hand vehicle. The springs are fastened at one end while the opposite end is allowed to play back and forth in two steel spring slides. The axle is made of very hard steel. Front wheel is supported by two wheel brackets of one piece forged construction and further supported by two extra steel braces which extend fourteen inches back on the center sills, and the whole fastened with six bolts. Wheels are of the very best construction with solid malleable iron hubs and electrically welded rims.

No. 3TG3

Box 24 x 42 x 10 1/2 inches
30-inch wheels 3/16 inch spokes Weight 115 lbs.
List Price \$17.00. Our Special Price \$12.75.

TRIUMPH CART No. 2

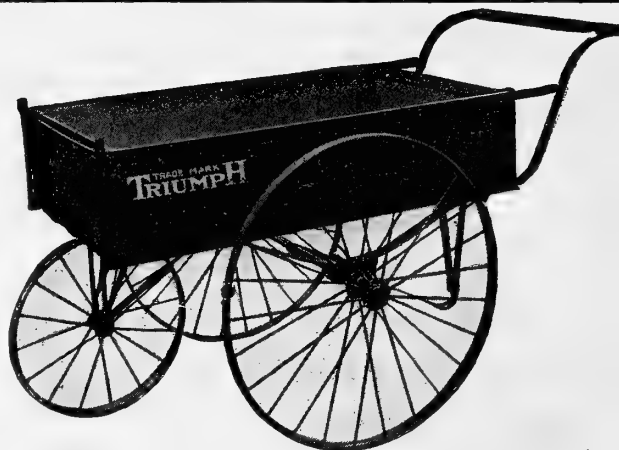
The great convenience of a three wheel cart will be appreciated, when you realize that the weight is all upon the ground and none on the party pushing it. This cart is especially designed for convenience. It is nicely made, the body is finished in green nicely striped and varnished, the gear is finished in red.

It is just the thing for printers, grocery stores, factories, and in fact its many uses would be hard to enumerate.

The frame work is made from hard wood, bolted together, the bodies are large, giving ample room for a large load. In the construction of Triumph carts we use on each corner of the box a hard wood post to support side panels, all other bracing being of steel. Both side panels are bound with steel at top and bottom, and each end panel has steel band at top.

No. 2 TRIUMPH

Box 22 x 42 x 9 1/2 inches. Capacity 600 lbs.
30 inch wheels 3/16 inch spokes Weight 103 lbs.
List Price \$15.00. Our Special Price \$11.25.



EXPORT CART No. 1

This cart is built especially for country use, where there are not any pavements, and a three wheel cart is not necessary. In the construction it is just as high-grade as other carts listed and will be found a very useful addition on every place. The running gear is made of steel, the wheels are of the bicycle pattern, steel spokes, electrically welded tires and malleable hub, this construction gives the greatest strength.

The springs are so constructed and arranged as to carry the load in a way that makes the cart easy to push.

Body is finished in green, nicely striped and varnished. The gear is finished in red.

No. 1 Export

Box 20 x 37 x 8 inches
26 inch wheels Capacity 250 lbs.
List Price \$10.00 Weight 86 lbs.
Our Special Price \$7.50.



FARMERS' LOW DOWN CART

Especially built for use on the farm, for carrying milk cans, crates, barrels and general farm produce. Substantial full bolted construction, with very strong steel wire wheels. Shipped knocked down.

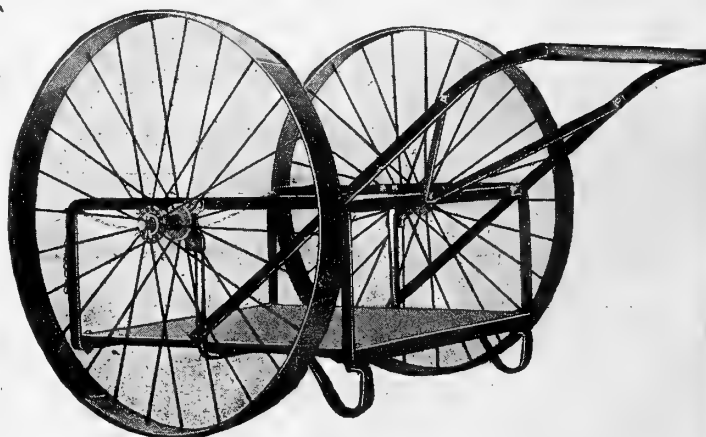
TRIUMPH No. 65

Platform, 28 x 32 inches. Wheels, 36 inches, 3 inch rims.
Weight 92 lbs. Capacity 500 lbs.
List Price \$12.00. Our Special Price \$9.00.

TRIUMPH No. 66

The No. 66 Cart is the same as the No. 65, only that it has a very fine body that attaches to the bottom, making a very convenient body cart.

Platform same as No. 65. Box 26 x 26 x 15 inches.
Wheels 36 inches, 3 inch rims. Weight 115 lbs.
List Price \$14.00. Our Special Price \$10.50.



IF SPECIAL DESIGNED CART IS DESIRED WRITE FOR SPECIAL CATALOG OF 70 DESIGNS.

It will pay you to use this insecticide in green-houses and on potted plants.

This insecticide destroys insects in poultry-houses and homes.

LEMON OIL COMPANY'S STANDARD Soluble INSECTICIDE in Water

NO DISAGREEABLE ODOR.

Guaranteed by the Lemon Oil Company under the Insecticide Act of 1910. Serial No. 321.

NO POISON

THIS INSECTICIDE

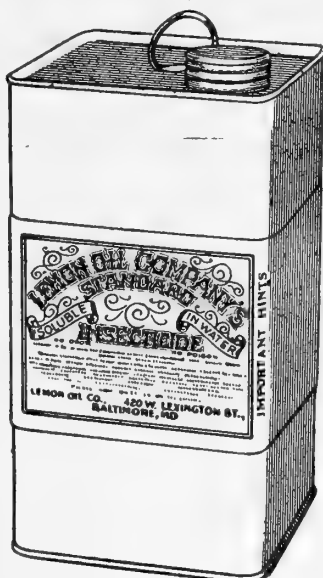
is death to pests—is safe to plants—is harmless to user—is low in price—is free from disagreeable odor.

We recommend Lemon Oil Co.'s Standard Insecticide. It is used by the most prominent florists and seedsmen to destroy Scale, Mealy Bug, Rust, Aphid, Caterpillar, etc., on Palms, Rose Bushes, Rubber Plants, Ferns, etc. It leaves no disagreeable odor on blooms or foliage—advantages over the vile-smelling soaps and powders—especially for indoor use. Being Poisonless, it is not dangerous to use.

This will be found an excellent wash for dogs and other animals; it relieves Mange, destroys Lice and other insects, and gives the coat a beautiful glossy appearance. Contains no poison to injure the animal, and being liquid, gets through the hair to the hide.

It will destroy Lice and other insects in poultry houses.

It will also kill Roaches, Ants and other insects that infest houses.



PRICES:

1/2 Pint.....	\$.25
1 Pint.....	.40
1 Quart.....	.75
1/2 Gallon.....	1.25

1 Gallon.....	\$ 2.00
5 Gallons.....	9.00
10 Gallons.....	17.50

Directions on every Can.

DIRECTIONS FOR USE:

For Mealy Bug.—1/2 pint Standard Insecticide to 4 to 6 quarts of luke-warm water or 1 tablespoonful to 2 cups of luke-warm water. When dipping for this insect the plants should remain in the liquid from 10 to 15 seconds and kept in continual motion. When syringing use the finest sprayer and apply the liquid with force.

For Brown and White Scale on Palms, Rubber Plants, etc.—1/2 pint Standard Insecticide to 4 quarts warm water or 1 tablespoonful to 2 cups warm water, applying with sprayer or sponge.

For Thrip, Red Spider, Caterpillar, Black and Green Fly.—1/2 pint Standard Insecticide to 2 or 3 gallons water or 1 tablespoonful to 3 or 4 cups water. Either spray or dip.

For Destroying Mites.—1/2 pint Standard Insecticide to 4 or 6 quarts of water. Water the plants with the liquid 2 or 3 times at intervals of 6 days.

For Destroying Ants.—1/2 pint Standard Insecticide to 1 gallon water. Well water their nests and runs several times in the course of a few days.

For Destroying Fleas, Insects, Relieving Mange and Skin Diseases on Dogs and Other Animals.—1 tablespoonful of Standard Insecticide to 1 cup warm water; rub well into the hide, letting lather remain a few minutes.

For Destroying Lice and Other Insects in Poultry Houses.—1 part Standard Insecticide to 10 parts water.

For Destroying Roaches, Ants and Other Insects in Houses.—1 part Standard Insecticide to 5 parts water.

POISON

KIL-WEED

POISON

NOT TO BE USED ON LAWNS

A SCIENTIFIC WEED DESTROYER. FREE FROM ODOR.
By Analysis it Has Been Found There is no Stronger Weed Killer on the Market.

An unsurpassed preparation for the removal of grass, weeds, vines and bushes from paths, roadways, gutters, streets and any other place from which it is desired to remove any and all vegetable growths, thus destroying the breeding ground for mosquitoes. The work can be done in a speedy, thorough, economical and easy manner. The material has no bad effect on the ground, neither does it injure or discolor the brick, stone or marble curbing.

No more digging and disfiguring of paths and roadways. Saves expense of several men. **KIL-WEED** not only kills weeds, but destroys seed germs and roots of plants. Can be used with an ordinary sprinkling can. One gallon **KIL-WEED** will make 30 to 35 gallons treating liquid when mixed with water. One man with a sprinkling can in one hour can do as much or more than six men could in one-half day, and do the work better.

Judgment should be exercised in using **KIL-WEED**, as it is impossible to give full directions to suit every case. If the weeds are large and strong the solution should be made stronger than for ordinary grass and weeds. They should be cut down so that the solution can reach the roots.

1-Quart Can.....	\$.35	5-Gallon Can.....	\$4.00
1/2-Gallon Can.....	.60	10-Gallon Can.....	7.50
1-Gallon Can.....	1.00	1 Barrel, per gal.....	.65

FULL DIRECTIONS WITH EVERY CONTAINER.
WRITE FOR SPECIAL CIRCULAR.

POISON KIL-WORM POISON

Destroys Worms, Ants, Etc., Infesting Golf, Cricket Grounds, Parks and Lawns.
Sure Death to Snails.

Does not injure grass, but acts rather as a fertilizer. (Note.—Must not come in contact with fine plants.)

Has been thoroughly tested and found perfectly satisfactory.

Causes the insects to come to the surface to die. One gallon **KIL-WORM** makes fifty gallons liquid when mixed with water.

Prices:

1-Quart Bottle.....	\$1.00
1/2-Gallon Bottle.....	1.75
1-Gallon Jug.....	3.00
5-Gallon Jug.....	13.50

FULL DIRECTIONS ON EVERY CAN.

ALL PRICES SUBJECT TO CHANGE
WITHOUT NOTICE.

A Scientific Chemical Compound for Exterminating the San Jose Scale



Notwithstanding the fact that there are many other Scale remedies on the market, is holding its own and is still the favorite among many fruit-growers. The dealers like to handle it because it sells rapidly, and the Orchardist likes to use it because it is easily applied and very effective. It was the first commercial remedy on the market for the destruction of San Jose Scale. The best and most reliable oil remedy. Specially valuable for spraying apple and pear for San Jose Scale. Perfectly soluble in water in any proportion. KIL-O-SCALE is not simply an oil remedy; it contains other chemical preparations, each in itself being an insecticide of more or less efficiency.

KIL-O-SCALE

DIRECTIONS.

KIL-O-SCALE is a concentrated LIQUID, and is shipped in barrels, kegs or cans. To one gallon of ready to be applied **KIL-O-SCALE** add 18 gallons of cold water and stir. It is then will congeal in Cold Weather, it should be kept in a temperature not colder than 40 degrees Fahrenheit. Be sure to Stir Well Before Mixing With Water.

Pint Cans, each.....	.30	Two-Gallon Cans, wt., 20 lbs.....	\$2.25
Quart Cans, per quart.....	.50	Five-Gallon Cans, wt., 40 lbs.....	5.00
Half-Gallon Cans.....	.75	Ten-Gallon Cans, wt. 80 lbs.....	9.50
One-Gallon Cans, wt., 10 lbs.....	1.25	Half-Barrels (25 gals.), wt., 225 lbs.....	22.50
BARRELS, PER GALLON, 85c. Wt., 450 LBS.			

LIME-SULPHUR SOLUTION

The universally accepted spray material for dormant use is lime sulphur solution. Chemically made lime sulphur solution has now almost entirely supplanted the home-made solution because it is better.

This material combines the great fungicidal properties of sulphur with the scale remedy, and is specially recommended for peach and plum trees which need the combined treatment in the fall and spring. In spraying this material care should be exercised to avoid getting it in the eyes, and gloves should be worn to protect the hands.

Lime-Sulphur Solution is used both as an insecticide and a fungicide. As an insecticide it is used principally against scale insects, especially the San Jose Scale. For scale insects it is applied while the trees are dormant and is diluted with 8 or 9 parts of water. As a fungicide it is used chiefly for the control of apple scab, 1½ gallons to 50 gallons of water. Lime-Sulphur may be used in combination with arsenate of lead and tobacco extracts. Paris Green should not be used with Lime-Sulphur.

PRICES:

1-qt. Cans.....	25c.	10-gal. Cans.....	\$3.00
½-gal. Cans.....	45c.	½-bbl., per gal.....	.16
1-gal. Cans.....	75c.	1-bbl., per gal.....	.14
5-gal. Cans.....	\$2.00		

Special Price in Larger Quantities.

B. T. S.

This is a trade name or designation for a definite chemical combination of sulphur with the mineral barium, instead of the mineral lime. In this combination practically all the sulphur is available as an insecticide and fungicide in its most active form.

By the use of barium in the place of lime it is not only possible to obtain the highest efficiency of the sulphur, but also to obtain a dry crystalline product that reduces the bulk in shipping about 75%, thus saving freight and reducing losses from leakage and waste.

Results of Spraying with B. T. S. The term B. T. S. is used to designate a dry substitute for Lime-Sulphur Solution, consisting of sulphur combined with barium to form crystals easily soluble in water.

In experiments conducted during the last year it has proved to be equal to lime-sulphur solution, both as an insecticide and as a fungicide. In fact, it is practically the same thing in dry form, the difference being the substitution of barium for the lime, thus making possible the reduction of the material to dryness without destroying its chemical composition. It is so closely related to lime-sulphur solution that it would be expected to perform the same work in destroying insects and preventing fungous diseases; and in our experience we were, therefore, not surprised to find it to be an efficient remedy for the San Jose Scale and oyster-shell scale, as well as a preventive of fungous diseases.

Directions. For dormant spraying to control scale, etc., use 12 pounds to 50 gallons of water. For growing period spraying on apples to control scab, etc., use 1½ to 2 pounds to 50 gallons of water.

1-lb. package.....	\$.20	50-lb. package.....	\$5.50
5-lb. package.....	.80	100-lb. package.....	10.00
10-lb. package.....	1.50	300-lb. package.....	27.00
25-lb. package.....	3.00		

FISH OIL SOAP WITH TOBACCO

Apply for green-fly or aphids, one-half ounce to gallon of water; one ounce for mealy bugs and two ounces for most greenhouse scale. Outside purposes, double the strength for same kind of pest.

Price, ½-lb., 10c.; 1 lb., 15c.; 2 lbs., 25c.; 5-lb. package.....60c.

Larger quantities, price on application.

HAMMOND'S GRAPE DUST

For Mildew and Blight, 5 lbs.....40c.

PURE WHITE HELLEBORE

The cheapest and best preparation for destroying rose slugs, currant worms, etc. One-quarter pound, 10c.; half-pound, 20c.; pound, 40c. By mail, 45c. per lb.

PERSIAN INSECT POWDER OR BUHACH

Price: ¼-pound, 25c. Pound.....80c.

DRY—Blow on with a bellows or gun.

SOLUTION—Dissolve one ounce to three gallons of water, and apply with syringe or pump.

INSECTICIDES—CONTINUED

ARSENATE OF LEAD

Arsenate of Lead is an arsenical poison for use against insects that chew and for such insects as the fruit-flies that lap and suck up sweetened liquids. It has also been shown to have considerable fungicidal value both when used alone or used in combination with lime-sulphur.

Arsenate of Lead is prepared in two forms: paste and powder. When the powdered form is used, only half the quantity by weight is required. Both the paste and powdered form can be used in liquid sprays. The powdered form is also used for dusting.

The principal insects for which Arsenate of Lead is used are: apple-maggot, brown-tail moth, bud-moth, cankerworm, codling moth, fruit-tree leaf-roller, gipsy moth, tent caterpillar, pear slug, curculio, etc. **Directions:** 2 to 3 lbs. paste to 50 gallons of water.

Paste Form.		Powdered Form.	
1-lb. pkg., per lb.....	25c.	1-lb. pkg., per lb.....	40c.
2-lb. pkg., per lb.....	20c.	2-lb. pkg., per lb.....	38c.
5-lb. pkg., per lb.....	18c.	5-lb. pkg., per lb.....	35c.
10-lb. pkg., per lb.....	16c.	10-lb. pkg., per lb.....	32c.
25-lb. pkg., per lb.....	14c.	25-lb. pkg., per lb.....	30c.
50-lb. pkg., per lb.....	13c.	50-lb. pkg., per lb.....	28c.
100-lb. pkg., per lb.....	11c.	100-lb. pkg., per lb.....	25c.

ARSENITE OF ZINC

Arsenite of Zinc.—This is a combination of arsenic with zinc to form a quick acting, adhesive insecticide for use on potatoes and some other truck crops. It is much more adhesive and less caustic than Paris Green and kills quicker than Arsenate of Lead, thus possessing the desirable and eliminating the undesirable properties of both Paris Green and Arsenate of Lead. It should be used at the rate of 4 lbs. of the paste or 2 lbs. of the powder to each acre treated.

Paste Form.		Powdered Form.	
1-lb. pkg., per lb.....	25c.	1-lb. pkg., per lb.....	40c.
2-lb. pkg., per lb.....	22c.	2-lb. pkg., per lb.....	38c.
5-lb. pkg., per lb.....	20c.	5-lb. pkg., per lb.....	35c.
10-lb. pkg., per lb.....	18c.	10-lb. pkg., per lb.....	32c.
25-lb. pkg., per lb.....	16c.	25-lb. pkg., per lb.....	30c.
50-lb. pkg., per lb.....	15c.	50-lb. pkg., per lb.....	28c.
100-lb. pkg., per lb.....	14c.	100-lb. pkg., per lb.....	25c.

BORDEAUX MIXTURE (PASTE)

Bordeaux Mixture is a combination of copper sulphate and lime. It is a standard fungicide and may be used in combination with insecticides. Its use is indispensable in the control of black rot of grapes and the blight of potatoes. It is also used for apple-scab, bitter-rot, cedar rust, leaf spot and downy mildew. **Directions:** 8 to 10 pounds to 50 gallons of water.

1-lb. pkg., per lb.....	20c.	25-lb. pkg., per lb.....	13c.
2-lb. pkg., per lb.....	18c.	50-lb. pkg., per lb.....	12c.
5-lb. pkg., per lb.....	16c.	100-lb. pkg., per lb.....	10c.
10-lb. pkg., per lb.....	14c.	Barrels, 500 lbs., per lb.	9c.

BORDEAUX MIXTURE (POWDER)

This powder is used for the same purposes as the paste, and can be used either for dusting or in solution for spraying. It is especially recommended for potatoes and tomatoes.

1-lb. pkg., per lb.....	35c.	5-lb. pkg., per lb.....	30c.
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Larger sizes quoted on application.

BORDEAUX ARSENATE OF LEAD (PASTE)

This is a combination of Bordeaux Mixture and Arsenate of Lead, and is especially recommended for all spraying operation where it is desired to combine an insecticide for eating insects and a fungicide treatment in one spraying.

This combination is specially recommended where it is desired to include the Bordeaux treatment with the spraying for codling moth, also used for scab, cankerworm, case-bearer, bud-moth and for general use on garden vegetables and grape vines to kill leaf-eating insects and control fungous diseases. **Directions:** 6 to 8 pounds to 50 gallons water.

1-lb. pkg., per lb.....	25c.	25-lb. pkg., per lb.....	16c.
2-lb. pkg., per lb.....	23c.	50-lb. pkg., per lb.....	14c.
5-lb. pkg., per lb.....	20c.	100-lb. pkg., per lb.....	12c.
10-lb. pkg., per lb.....	18c.	500-lb. pkg., per lb.....	11c.

BORDEAUX ARSENITE OF ZINC (PASTE)

This is a combination of Bordeaux Mixture and Arsenite of Zinc. This combination makes a quick-acting poison for spraying where an insecticide is needed in combination with a fungicide. It is especially recommended for potato and tomato spraying. It is quick in action, very adhesive and will not burn the plant. **Directions:** 6 to 8 pounds to 50 gallons of water.

1-lb. pkg., per lb.....	25c.	25-lb. pkg., per lb.....	16c.
2-lb. pkg., per lb.....	23c.	50-lb. pkg., per lb.....	14c.
5-lb. pkg., per lb.....	20c.	100-lb. pkg., per lb.....	12c.
10-lb. pkg., per lb.....	18c.	500-lb. pkg., per lb.....	11c.

BORDEAUX MIXTURE AND PARIS GREEN (POWDER)

A combination of Bordeaux Mixture and Paris Green. A very quick-acting poison for use on potatoes and tomatoes, as well as other crops. It not only kills the bugs but at the same time defends against blight. It can either be used as a spray or for dusting.

1-lb. package	\$.30
3-lb. package .....	.80
30-lb. package	7.50

ATOMIC SULPHUR

This is pure sulphur treated by a special process to convert it into a very finely divided state in the form of paste, so it can be readily diluted with water and applied as a spray to coat fruit and foliage with a thin film of sulphur to prevent germination of fungous spores.

It is recommended for the control of scab on peaches, brown rot on peaches, plums and cherries and cedar rust on apples. **Directions:** 5 to 7 lbs. to 50 gallons of water.

1-lb. pkg., per lb.....	25c.	50-lb. pkg., per lb.....	12c.
2-lb. pkg., per lb.....	23c.	100-lb. pkg., per lb.....	12c.
5-lb. pkg., per lb.....	20c.	Barrels, 400 to 500 lbs.,	
10-lb. pkg., per lb.....	18c.	per lb.	10c.
25-lb. pkg., per lb.....	15c.		

FLOUR OF SULPHUR

Pound	\$.10 lb.	10 lbs.	\$.06 lb.	50 lbs.	\$.04½ lb.
5 lbs. ....	.08 lb.	25 lbs. ....	.05 lb.	100 lbs. ....	.03½ lb.

Barrels (250 lbs.).....\$.02¾ lb.

Prices subject to change without notice.

INSECTICIDES CANNOT BE SENT BY PARCEL POST

INSECTICIDES—CONTINUED

"CORONA DRY"



PATENT ARSENATE OF LEAD.

One pound of "Corona Dry" will do the work of three pounds of Paste Arsenate and do it better.

But economy is not everything. Efficiency is more important. What would it mean to you to have a spray mixture of standard strength and be absolutely sure that all of one spraying or of many sprayings was absolutely the same strength? Evaporation, difficulty of perfect mixing, make this impossible with a paste arsenate. You can have a standard efficiency if you use Corona Dry.

The "Standard" for Convenience, Economy, Efficiency.

Quickly and easily mixed. No working up—no straining needed—no sediment. No lumps. No waste. Never clogs spray nozzle. Highest per cent. of actual killing power. Absolutely safe, will not burn. Sold in net-weight packages: 100 lbs., 50 lbs., 25 lbs., 10 lbs., 5 lbs., 1 lb. No shrinkage, seepage, evaporation. Every package contains actual net weight of "Corona Dry" paid for.

Remember, "Corona Dry" means no guesswork, but a standardized spray in which the mixture is always the same strength and efficiency.

1-pound package, per pound.....	\$.40
5-pound package, per pound.....	.35
10-pound package, per pound.....	.32

25-pound package, per pound.....	\$.30
50-pound package, per pound.....	.28
100-pound package, per pound.....	.25



KEROSENE EMULSION (Liquid).

Kerosene Emulsion is an efficient contact insecticide, especially valuable against plant lice and similar soft-bodied insects. It may be used for practically all the sucking insects, where it is necessary to use a contact killer. It is especially effective for Woolly Aphis on apples. For this spraying, considerable pressure on the pump should be maintained. For the root-infesting form, soak the ground around the trees after first removing the soil to the depth of two or three inches. After having applied the solution, replace the dirt. . . .

Directions—One part Kerosene Emulsion to from four to fifteen parts of water.

1 quart	\$.40
1 gallon	1.00
5 gallons	4.00

SOLUBLE OIL.

95 Per Cent.

For Use in Dormant Period.

Soluble Oil has a special value for use against scale insects. When properly used there is no danger of injuring dormant trees. It should not be applied when there is danger of freezing on the trees. It is used principally for San Jose Scale, Pear Psylla, Terrapin Scale, Cottony Maple Scale, etc.

Directions—One gallon Soluble Oil to fifteen gallons of water.

1-Gal. Cans.....	\$1.00 each.	10-Gal. Cans.....	\$6.65 each.
5-Gal. Cans.....	3.65 each.	Half-Barrels ..	60c. per gal.
		Barrels.....	50c. per gal.

FORMALDEHYDE, 40% SOLUTION.

It is Valuable as a Germicide, Fungicide and Disinfectant. **Soil Treatment:** Sprinkle soil in the proportion of one gallon to one square foot with a solution of 2 to 3 pints Formaldehyde to 50 gallons of water. Do not plant for two weeks.

Household and other Purposes: To disinfect clothing, soak it 24 hours in a solution of two pints Formaldehyde and 5 gallons of water. To disinfect homes, stables, chicken-houses, etc., scrub with solution of one pint of Formaldehyde to two gallons of water.

Prices: ¼-pt. bottles, 15c.; ½-pt. bottles, 25c.; 1-pt. bottles, 45c.; 5-pt. bottles, \$1.70; 1-gal. cans, \$2.75.

BLUESTONE (OR COPPER SULPHATE).

The Bluestone market fluctuates, and we are therefore unable to put prices in catalogue. Will name best possible prices on application.

"BLACK LEAF 40"

A Concentrated Solution of Nicotine Sulphate.

For spraying against sucking insects, such as Green and Woolly Aphis, Pear Psylla, Grape Leaf Hopper, Pear Thrip, etc., use one part Black Leaf 40 to about 900 to 1000 parts water.

Against more resistant plant lice, such as Black Aphis and Rosy Apple Aphis, one part Black Leaf 40 to 500 parts water.

Black Leaf 40 is permitted by the United States Government and by State regulations to be used in official dippings of Sheep and Cattle for Scabies.

Full directions on every package.

Prices:

¼-lb. can	\$.75
2-lb. can	2.50
10-lb. can	10.75
F. O. B. Baltimore.	

NICO-FUME

Nico-Fume is a Tobacco Paper (insecticide for fumigating greenhouses. Extensively used by prominent florists. Very easy to apply. Prices: 24 sheets, \$.85; 144 sheets, \$4.00, and 288 sheets, \$7.50. Directions on each package.

NIKOTEEN

Is the most powerful known insecticide, and will be found more economical and convenient than weak tobacco extracts. Price: Pint cans, \$1.50; 5-pint cans, \$7.00.

VAPORIZING PANS (for above).....	\$.60
IRONS .....	.60
3 PANS, 3 IRONS and 1 HOOK.....	3.50

APHIS PUNK (NIKOTEEN)

Especially designed for use in private places and in houses without convenient furnaces for heating irons necessary for vaporizing Nikoteen or Tobacco Extract. It is very effective as an insecticide. The Punk is lighted with a match and allowed to burn, which it does without flaming, at the same time giving off dense white fumes of Nikoteen that kill aphids and thrip very effectively. Per box, 60c.; per 12 boxes, \$6.50.

INSECTICIDES CANNOT BE SENT BY PARCEL POST

INSECTICIDES—CONTINUED

PARIS GREEN

Paris Green is slightly more soluble than arsenate of lead, and therefore acts more quickly in killing insects. It should never be used in lime-sulphur solution, but is fine to use in connection with Bordeaux Mixture. It is a very efficient poison for use on all plants, the foliage of which is not very tender.

Directions: For potato bugs, 2 pounds to 50 gallon of water. Cabbage worms or cabbage looper, 1 pound to 100 gallons of water. If used in connection with Bordeaux Mixture, use 2 pounds to 100 gallons of the mixture.

1/4 pound	\$.10	2-pound package.....	\$.50
1/2 pound .....	.15	5-pound package.....	1.25
1 pound .....	.30		

HAMMOND SLUG SHOT

A non-poisonous powder; it requires no further mixing or preparation; easily applied; not injurious or dangerous to animals, the person applying it, or fruits and vegetables treated; destroys potato bugs and beetles, green and black fly, slugs, worms, caterpillars, etc. Ten to forty pounds is sufficient for an acre.

5-lb. package.....	25c.	10-lb. package.....	50c.
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BUG DEATH



BUG DEATH kills Potato, Squash and Cucumber Bugs, Currant and Tomato Worms, and all bugs and worms that chew the leaves of plants; non-poisonous.

Directions for Applying Dry: For potato and other vines which require a top application, apply dry with Shaker or Shifter at the rate of 15 to 25 pounds per acre to an application, according to size and conditions of the vines.

1-pound package.....	\$.15
3-pound package.....	.35
5-pound package.....	.50
12 1/2-pound package.....	1.00
10 pounds.....	7.50

Directions for Using in Water:

Add 15 to 25 lbs. to 80 gallons of water, and mix thoroughly.

Pat. March 16 and Nov. 9, 1897.
Pat. in Canada Nov. 2, 1897,
and Jan. 25, 1900.

DICKEY BUG DEATH SHAKER



AN EXCELLENT SHAKER FOR APPLYING BUG DEATH, 25c.

Parcel Post Wt., 1 lb.

TREE TANGLEFOOT



For protecting trees against climbing insect pests in a simple, economical and effective way, use Tree Tanglefoot—a sticky substance applied directly to the bark of trees. One application remains sticky on the trees three months fully exposed to the weather. Easily applied with a small wooden paddle. One lb. will spread 8 feet long by 5 inches wide, 1-16 inch thick. Will stay on tree three months.

1-lb. Can	\$.30
3-lb. Can .....	.85
10-lb. Can	2.65



TOBACCO SOAP

Sulpho-Tobacco Soap is a powerful agent for the destruction of all bugs and insects. One or two applications will rid plants of the pests. Full directions with each cake.

Destroys cabbage-, squash- and potato-bugs, currant worms, lice, green-fly, mealy bug, red spider, etc. Sure death to all plant insects indoors and out-of-doors. Of special value for spraying shrubs, fruit trees and vines.

3-oz. cake makes 1 1/2 gallons prepared solution, 10c. Mailed, postpaid, for 13c.

8-oz. cake makes 4 gallons prepared solution, 20c. Mailed, postpaid, for 25c.

10-lb. cake makes 80 gallons prepared solution. By express, \$2.00.

TOBACCO STEMS

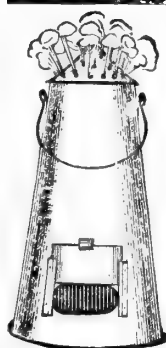
Indispensable for fumigating greenhouses and conservatories for the destruction of green and black aphids and other insects.

Dampen thoroughly a few hours before using, place about a half-pound over a handful of shavings in a fumigator, and light. 50-pound bale, 3c. pound.

TOBACCO DUST

For green and black aphids, fleas, beetles, etc. Splendid fertilizer and preventative for insects in the ground and around roots. For insects on plants apply with powder duster or bellows. For worms or grubs in the soil, apply liberally to the surface and rake in, or strew thickly in the drills before planting.

Price: 5 pounds, 25c.; 20 pounds, 80c.; 100 pounds, \$3.75.



FUMIGATORS

Made from heavy galvanized iron. In demand for fumigating greenhouses with tobacco stems and tobacco dust. If the greenhouse is larger than the capacity of one of the fumigators, one should be placed at either end of the house. Being made from heavy galvanized iron, there is not any danger from fire.

No. 2—Height, 16 inches. For a house 12x40 feet. Price.....\$2.00

No. 3—Height, 20 inches. For a house 15x100 feet. Price..... 2.50

Kill-Germ Dip and Disinfectant

These goods represent the highest attainment in Dip Manufacture.



A Saponified combination of Cresylic Acid and Coal Tar Creosotes, which readily forms a milky emulsion in water.

An official dip of great efficiency for the killing of Lice, Ticks, Scab and other Parasites and disease germs which infest the bodies and pens of Hogs, Sheep and Cattle.

One of the most powerful Disinfectants and Germicides ever produced. A powerful Antiseptic and Purifier. For sanitary purification of dwellings and tenement-houses, sinks, closets, stables, public schools, railway stations, hospitals, workshops, hotels, etc., it is unequalled.

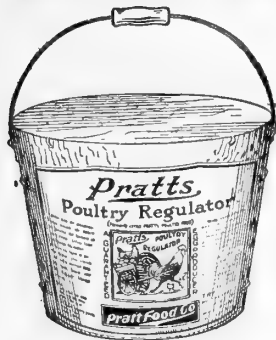
Full directions on every can.

1-quart can.....	\$0.50
1/2-gallon can.....	.75
1-gallon can.....	1.35
5-gallon can.....	6.00
1/2 bbl., per gal.....	1.00
1 bbl., per gal.....	1.00

SPRAY CALENDAR

WHAT TO SPRAY	FOR WHAT TO SPRAY	WITH WHAT TO SPRAY	WHEN TO SPRAY			REMARKS AND CAUTION
			First Spraying	Second Spraying	Third Spraying	
Apple	Codling Moth	Arsenates in Bordeaux or arsenate of lead 3 lbs. to 50 gals. Lime-Sulphur	As soon as blossoms fall	7 to 10 days later	30 days later	Later spraying if made should be made with diluted solutions
	San Jose Scale		Late in fall, late in winter or early in spring			Use Lime-Sulphur only when trees are dormant
	Scab	Bordeaux Mixture	Just before blossoms open	Within a week after blossoms have dropped.	Same 7 to 10 days later	The spray just before blossoms open is very essential for scab
	Woolly Aphis	Kerosene Emulsion	When trees are in full leaf	In fall		Don't use strong emulsion when trees are in full leaf
Asparagus	Asparagus rust	Bordeaux	After cutting crop	10 days later	10 days later	Repeat 3 to 4 times. Burn rusted brush in the fall.
Bean	Anthracnose	Bordeaux	On 2 or 3-inch plants	10 days later	After blossoms	
Cabbage and Cauliflower...	Cabbage Worm	Pyrethrum	With first appearance of worms	Whenever worms are observed	Same	1 oz. to 30 gals. of water
Cherry	Rot	Bordeaux	Before blossoming	After blossoming drop on fruit	Two weeks later on fruit	When fruit is large
	Curculio	Arsenate of lead	Before blossoming	As blossoms dry up	One week later	Avoid strong solutions. Do not use other arsenicals than arsenate of lead
Cucumber	Cucumber Beetle	Arsenate of lead in Bordeaux	Soon as plants appear	Week later	Week after second	Week after fourth
Currant	San Jose Scale	Lime-Sulphur	As with apple	In spring as with apple		
	Worm	White Hellebore	When worms first appear	Repeat in 3 or 4 days	Repeat as second	Look for worms on under side of leaves first
Gooseberry	Mildew	Bordeaux	Before blossoms open	After blossoming	Two weeks later	
	Worm	White Hellebore	As on Currants			
Grape	Anthracnose	Bordeaux	Just before buds open	Just before blossoming	Just after fruit has set	
	Downy and Powdery	Bordeaux	Just before blossoming	Just after fruit has set	7 to 10 days later	Follow by two or three sprayings
	Mildew and Rot					
Peach	Leaf Curl	Bordeaux	In fall or spring	As buds are opening	Just after calyx drops	
	Rot and Scab	Bordeaux	As buds are swelling	Just after calyxes drop	2 to 3 weeks later	Destroy all mummies
	Bud Moth	Arsenates in Bordeaux	With opening of buds			Use only half usual amount of poison
	San Jose Scale	Lime-Sulphur	In late fall or early spring			
Pear	Scab	Bordeaux	When leaves are half grown	After blossoms drop		
	Codling Moth	Arsenates in Bordeaux	As with Apple	Same as first		See Apple
	San Jose Scale	Lime-Sulphur	In fall or early spring			
Plum	Rot	Bordeaux	As buds are swelling	Just after calyx drops	3 or 4 weeks later	Repeat every 7 or 10 days
	Curculio	Arsenate of lead in Bordeaux	With starting of buds	Just after calyx drops	5 days later	Destroy all mummies
	San Jose Scale	Lime-Sulphur	In late fall or early spring			Jar, gather and destroy curculios and stung plums
Potato	Early Blight	Bordeaux	When plants are 6 inches high	Two weeks later	Two weeks later	
	Scab	Soak seed in Arsenites alone or in Bordeaux	Corrosive sublimate	Solution (2 oz.) As for first	In 16 gallons	90 minutes
	Colorado Beetle	Bordeaux	When beetles or young appear			Arsenate of lead, 3 lbs. to 50 gals. of water for Colorado Beetle alone
Quince	Fruit and Leaf Spot	Bordeaux	Just before blossoms open	After blossoms drop	Two weeks later	
	San Jose Scale	Lime-Sulphur	In late fall or early spring			
Raspberry and Blackberry...	Anthracnose	Bordeaux	Before leaves open	Bord. on canes 6 inches high	Repeat second 1 week later	Keep spray from leaves on bearing canes
Rose	Leaf Spot	Bordeaux	With first appearance of fungus	2 or 3 weeks later	Repeat if necessary	
	Slug	Bordeaux or Hellebore	On appearance of slugs	Repeat if necessary		
Strawberry	Leaf Spot	Bordeaux	On new growth after crop	2 or 3 weeks later		
Tomato	Anthracnose	Bordeaux	Soon after fruit begins to set	Three weeks later	Three weeks later	

HEALTHY HENS AND LOTS OF EGGS

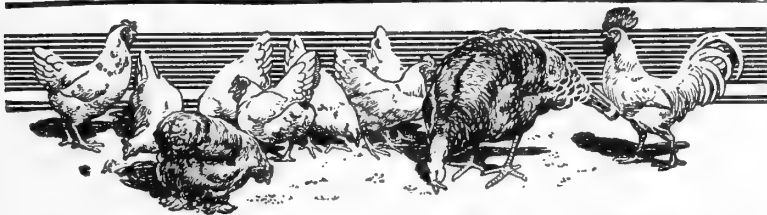


Health begets health. Good layers produce good layers. "Like mother, like chick." These are sound poultry principles. You may expect vigorous, laying, paying birds when you give them

PRATT'S POULTRY REGULATOR

daily. It contains just those elements needed to keep poultry in perfect health. Both a tonic and digestive. Prevents common poultry ailments. Produces growth, gives increased vitality, and hastens maturity. Makes pullets early and constant layers.

25-lb. pail or bag, \$2.50; 12-lb. pail, \$1.25; packages, 60c., 25c.



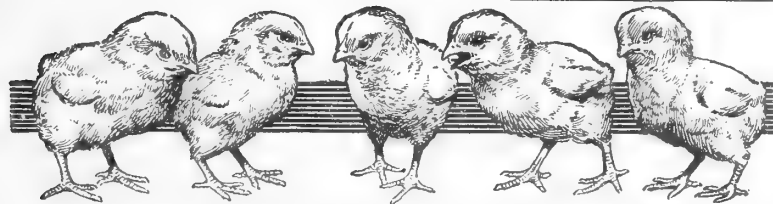
Raise Every Livable Chick

After a good hatch, keep the record good by raising every livable chick. For the first three weeks, and even longer, you will find that the greatest success follows.

PRATT'S BABY CHICK FOOD.

It makes baby chicks live. Makes bone and muscle. Brings along the weak ones. Prevents white diarrhoea, leg weakness, "pasting up" and other digestive troubles. Costs only a cent a chick for three weeks.

Bags—100 lbs., \$5.75; 50 lbs., \$3.00; 14 lbs., \$1.00. Packages—50c., 25c. and 10c.



A guaranteed remedy for Roup, Colds, Canker, Catarrh and similar poultry diseases is

PRATT'S ROUP REMEDY

Pills or Powder: \$1.00, 50c., 25c.

Contains remedies which are quickly absorbed, purify the blood and reduce fever. Pills are convenient for individual

treatment. Many poultrymen use this remedy the year round as an effective preventive.



PRATT'S POULTRY

DISINFECTANT

Only \$1.00 a gal.

Three times as powerful as crude carbolic acid. A sure deodorizer, germicide and liquid lice killer. Use it in Roup, Colds and other contagious diseases.



- | | |
|---|-------------------------|
| PRATT'S CHICKEN CHOLERA REMEDY..... | 25c. and 50c. Packages. |
| PRATT'S CONDITION TABLETS..... | 25c. and 50c. Packages. |
| PRATT'S GAPE REMEDY..... | 25c. and 50c. Packages. |
| PRATT'S SCALY LEG REMEDY..... | 25c. and 50c. Boxes. |
| PRATT'S SORE HEAD CHICKEN POX REMEDY..... | 25c. and 50c. Packages. |
| PRATT'S BRONCHITIS REMEDY..... | 25c. and 50c. Packages. |
| PRATT'S HEAD LICE OINTMENT..... | 25c. Boxes. |

Pratts,



Horse and Cattle Remedies

Intelligent, humane and prudent owners of horses, cows and other live stock realize the value of good tonics, regulators and remedies. For nearly half a century Pratt's has been adding to its successful record.

Pratts

PRATT'S ANIMAL REGULATOR.

Packages:	25-lb. pails.....	\$3.00
	50-lb. bags.....	6.00
12-lb. pails.....	1.75	100-lb. bags.....11.00

PRATT'S CONDITIONER FOR HORSES AND CATTLE.

(Formerly called "Pratts Food for Horses and Cattle.")

7-lb. bags....	\$.50	50-lb. bags....	3.00
12-lb. bags....	.75	100-lb. bags....	\$5.00
25-lb. bags....	1.50		

PRATT'S COW REMEDY—50c. and \$1.00 pkgs.
PRATT'S BAG OINTMENT 25c. and 50c. boxes.
PRATT'S CALF TONIC—50c. pkgs. 12-lb. pails, \$2.00. 25-lb. pails, \$3.50.

PRATT'S DIP AND DISINFECTANT—
1 qt.35c. 5-gal. cans....\$4.75
2 qts.60c. 10-gal. cans....9.00
1 gal.\$1.00 50-gal. bbls....38.00

PRATT'S COLIC REMEDY—50c. and \$1 bottles.
PRATT'S DISTEMPER AND PINK EYE REMEDY—50c. bottles.

PRATT'S HEALING OINTMENT—25c. and 50c. boxes.

PRATT'S HEALING POWDER—25c. boxes.
PRATT'S LIQUID SPAVIN REMEDY—50c. and \$1.00 bottles.

PRATT'S SPAVIN PASTE—50c. bottles.

PRATT'S HEAVE, COUGH AND COLD REMEDY—50c. and \$1 pkgs.

PRATT'S WORM POWDER—50c. and \$1.00 packages.

PRATT'S HOG CHOLERA SPECIFIC—50c. packages. 12-lb. pails, \$2.00. 25-lb. pails, \$3.50.

PRATT'S LINIMENT—25c., 50c. and \$1.00 bottles.

PRATT'S PEERLESS HOOF OINTMENT—25c. size.

PRATT'S GERMATHOL—25c. size.



To protect your chicks from white diarrhoea, the most destructive of all chick diseases, it is only necessary to give

Pratts White Diarrhoea Remedy

50c. and 25c.,

in the drinking water from the first drink. This remedy has saved many dollars worth of chicks to poultry raisers. You can depend on it.



Get rid of lice on your poultry, in nests, dustbaths, incubators and elsewhere in a day's time by using

Pratts Powdered Lice Killer

50c. and 25c.

Effective, non-poisonous, non-irritating. May be used wherever a powder is suitable. A splendid deodorizer. Will kill lice on horses, cattle, dogs or cats.



EVERY PRATT REMEDY IS GUARANTEED TO SATISFY OR MONEY REFUNDED.

DR. HESS

Poultry and Stock Preparations

Prescriptions of Dr. Hess (M D., D. V. S.)

D R. HESS POULTRY PAN-A-CE-A



makes poultry healthy; makes hens lay; not a stimulant, but a tonic, that tones up the dormant egg organs, brings back the scratch and cackle, and compels each hen to put her share of eggs in the market basket.

It also contains internal antiseptics that counteract disease; insures a healthy, singing poultry flock. Cost but a trifle—a penny's worth enough for 30 hens per day. 1½ lbs., 25c.; 5 lbs., 60c.; 12 lbs., \$1.25; 25-lb. pail, \$2.50.

GUARANTEED.



Dr. Hess Stock Tonic

Formula printed on every package.

Every ingredient indorsed by the U. S. Dispensatory and other high medical authorities. It aids digestion, makes stock healthy, and expels worms. Helps stock convert more ration into milk, flesh, blood and muscle. Every pound backed by the Dr. Hess & Clark unqualified guarantee. Prices, 25-lb. pail, \$1.60; 100-lb. sack, \$5.00.



Dr. Hess Worm Powder

For Horses, Sheep, Cattle and Hogs. It is highly concentrated, and is an effective vermifuge. Dr. Hess' own prescription that proved effective in his practice. Price, 1½ lbs., 50c. GUARANTEED.

Dr. Hess Healing Powder

The modern Gall Cure. Cures Galls, Cuts, Wounds, Ulcers, Grease Heel. Antiseptic and soothing. Heals everything it touches by forming a coating, cleaning and closing up wounds. Comes in sifting-top cans. Price, 4-oz., 25c.; 10-oz., 50c.

ABSOLUTELY GUARANTEED.



DR. HESS ROUP REMEDY

For Roup, Diphtheria, Chicken Pox and all Catarrhal Diseases. It has these distinctive features: It is antiseptic, slightly astringent, non-irritating and healing. 4-oz. cans, 25c.; 10-oz. cans, 50c. GUARANTEED.



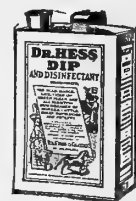
Instant Louse Killer

Kills Lice on Poultry, Horses, Cattle, Sheep, Ticks, Bugs on Cucumber, Squash and Melon Vines; Cabbage Worms, Slugs on Rose Bushes, etc. Sold in sifting-top cans—look for the word "Instant" before buying. Price, 1 lb., 25c.; 3 lbs., 60c. GUARANTEED.

DR. HESS DIP AND DISINFECTANT

Non-poisonous and non-irritating and guaranteed to be absolutely uniform in strength at all times. One gallon of Dip makes from 70 to 100 gallons effective solution. Spray it on roosts. Sprinkle it over the runs and in all cracks and crevices. Spray it on cattle and horses. Makes a splendid dip for hogs and sheep. It's a sure parasite and disease germ destroyer. Purifies stables, troughs, sinks, drains. GUARANTEED.

1 Qt., 50c.; ½-Gal., 75c.; 1 Gal., \$1.25.



Dr. Hess Fly Chaser

Drives flies away. One application lasts six hours. Prevents milk slump. Keeps cattle and horses contented during the fly season. Most humane idea of the age. Its use during summer months will insure good profits. GUARANTEED.

Dr. Hess Heave Powders

A dependable preparation for relieving horses of heaves, chronic coughs, asthma, bronchitis, etc.; with careful diet, the frequent use of this valuable preparation will afford permanent relief in the majority of cases. Price, 1½-lb. package, 50c.



Dr. Hess Colic Remedy

A reliable preparation for the treatment of Spasmodic and Flatulent Colic, Gripes, Acute or Chronic Indigestion, Impaction of the Stomach, Bowel Inflammation, etc.

Price, 50c. and \$1.00. GUARANTEED.

Dr. Hess Distemper Remedy

A reliable preparation for Distemper, Acute Colds, Fever and Cough. Price, 50c. GUARANTEED.

Your Money Back If Not Satisfied

Conkey's POULTRY REMEDIES

Conkey's Roup Remedy

Known to every poultryman. A wonderful remedy that quickly reduces the swelling and brings the bird back to normal. Given in the drinking water.

Packages, 25c., 50c., \$1.00. Sent postpaid.



Conkey's White Diarrhea Remedy

To be given to young chicks from the first drink until they are three weeks old. Aids wonderfully in preventing the development of this dread disease. Also desirable at intervals for the grown birds and especially so at mating time.

Packages, 25c. and 50c.
Sent postpaid.

Conkey's Cholera Remedy

For indigestion and so-called cholera in growing and grown birds. Given in drinking water quickly overcomes the diseased, feverish condition.

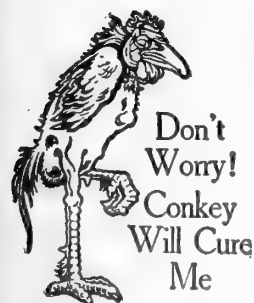
Packages, 25c. & 50c. By mail, 30c. & 55c.



Conkey's Poultry Tonic

A high quality tonic, egg maker and regulator, good for young and old birds all the year. Contains no filler—and no cayenne pepper or other harmful ingredient. Helps nature do its work in a natural, normal way. Does not over stimulate. Packages, 25c. and 50c.; pails, 12-lb., \$1.25; 25-lb., \$2.50; bags, 50-lb., \$4.75; 100-lb., \$9.00.

Conkey's Poultry Worm Remedy, 25c. and 50c. By mail, 30c. and 55c.
Conkey's Bronchitis Remedy, 50c. By mail 55c.
Conkey's Gape Remedy, 25c. and 50c. By mail 30c. and 55c.
Conkey's Sorehead Remedy, 25c. and 50c. By mail 30c. and 55c.
Conkey's Limberneck Remedy, 50c. By mail 55c.
Conkey's Scaly Leg Remedy, 25c. Sent postpaid.
Conkey's Rheumatic Remedy, 50c. By mail 55c.
Conkey's Poultry Laxative, 25c. By mail 30c.
Conkey's Blackhead Remedy, 50c. By mail 55c.
Conkey's Lice Powder, 25c., 50c. and \$1.00. Express extra.
Conkey's Lice Fix, 25c. and 50c. Sent postpaid.
Conkey's Lice Liquid, 60c. and \$1.00. Express extra.



ALL CONKEY REMEDIES ARE GUARANTEED TO GIVE SATISFACTION OR MONEY BACK.



HACKETT'S GAPE CURE

KILLS THE WORM AS WELL AS THE GERM



REGISTERED



CURE FOR Chicken Gapes

No drugging; simply confine the chicks and dust the Powder over them; they inhale it; kills both worm and germ; treat the whole brood at once in less than five minutes.

Package, 25c. Postage on single package, 5c. extra.

CHICK MANNA, or HEALTH FOOD (For Little Chicks)

This preparation is especially prepared for little chicks when first hatched. This should be the first and only food, and continue for 10 or 12 days before feeding anything else. Directions for feeding on each package. 1-lb. package, 10c.; by mail, 16c. 5-lb. package, 40c. 15-lb. package, \$1.10. 60-lb. box, bulk, \$4.20.

FRENCH'S POULTRY MUSTARD

This mustard is strictly pure, and is especially prepared for use with poultry.

The results from many years' experiments have proven that a heaping teaspoonful daily for every six birds, mixed thoroughly with the dry meal or meals, and then the whole moistened to a crumbly consistency, will start the birds off to laying, and produce results that will prove the efficiency of the mustard. It is not necessary to use the mustard from the 1st of May until August 1st. It should be used as soon as the fowls commence to moult. With early hatched pullets commence about the end of August or early September to insure eggs from October onwards.

1 1/2-pound package, per package	35c.
3-pound package, per pound	21c.
5-pound package, per pound	20 1/2c.
10-pound package, per pound	20c.
50-pound package, per pound	18c.



RUST'S CONDITION POWDER

The only positive preventive and cure for Gapes and Poultry Cholera, and a most excellent medicine for young turkeys that have been exposed to the weather; also an excellent medicine for horses, cattle, sheep and hogs. 13-oz. package, 25c.; by mail, 30c.; 32-oz. package, 50c.; 5-lb. box, \$1.00.

RUST'S EGG PRODUCER

You can feed for eggs just as you feed for milk, beef or pork; and you can get plenty of eggs at all seasons by using Rust's Egg Producer. Directions on each package. Prices: 1-lb. box, 25c.; 2 1/2-lb. box, 50c.; 6-lb. box, \$1.00; 10-lb. box, \$1.50; 25-lb. box, \$3.50.

RUST'S ROUP PILLS

For the cure of Roup, Catarrh, Colds, etc.
Box, 25c., 50c. and \$1.00.

RUST'S ROUP POWDER

Rust's Soluble Roup Powder for Roup, Catarrh, Colds, etc., of Fowls and pigeons.
Price, 25c., 50c. and \$1.00.

RUST'S LICE KILLING POWDER

This powder kills lice and other vermin on fowls, animals, plants or on anything. It does not affect the flavor of eggs or injure them for hatching when fowls and nests are dusted with it. Price.....25c.

LAMBERT'S DEATH TO LICE

A Disinfectant Insect Powder.

This powder is unrivaled as an insecticide; handy to use, cheap to buy, and does the work quickly.

15-oz. package	\$.25
48-oz. package	.50
100-oz. package	1.00

"HEN-E-TA BONE GRITS"

"HEN-E-TA"
ABOUT 30% PURE BONE ASH
NO OTHER BONE NEEDED
NO OTHER GRIT NEEDED
NO MORE BONE CUTTERS NEEDED
NO MORE BEEF-SCRAPS NEEDED
NO MORE CHARCOAL NEEDED
NO MORE OYSTER-SHELLS NEEDED
100 lbs - \$2.25
Balanced Ration Formulas Free
If you will give us your dealers name and address.
HEN-E-TA BONE CO.
NEWARK, N.J., DEPT. FLEMINGTON, W.VA.

Every 100 hens will need 100 lbs. "Hen-e-ta" per month, and should have it the year round; or 1 lb. "Hen-e-ta" per average fowl per month. The cost of this amounts to nothing, when compared with the results obtainable and the saving of other materials. All sizes are same price.

Prices: 10 lbs., 50c.; 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.25. Special price in ton lots.

"HEN-O-LA" DRY MASH

Is the ONLY MASH on the Market To-day That is "Within Itself" a COMPLETE BALANCED RATION FOR POULTRY.

It contains the five nutrients from wholesome sources, and in the right proportions to meet the requirements of fowls.

The Five Nutrients are protein, fat, carbo-hydrates, phosphorus and lime. We derive the first three from sound ground grains only; the last two from "Hen-e-ta." It takes 4.6 lbs. of carbo-hydrates to digest one pound of protein, and it takes about one pound of phosphate of lime (bone ash) to assimilate two pounds of protein, after the protein has been digested by the carbo-hydrates. In the absence of phosphates no assimilation can take place, and your profits come from assimilated food and not from digested food.

Price: \$2.50 per 100 lbs.; \$46.00 per ton.

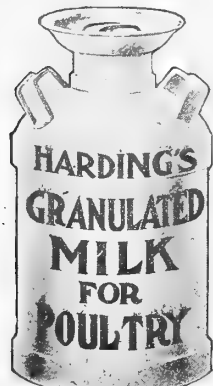
LITTLE GIANT STOCK AND POULTRY FOOD

Good for Cattle, Sheep, Horses, Swine and Poultry.

Composed of sterilized meat-meal, sterilized bone-flour, sterilized ground-blood, C. P. charcoal, imported French gentian root, imported African foenugreek seed, imported Spanish licorice root, imported German fennel seed.

GUARANTEED ANALYSIS: Protein, 22 to 28 per cent.; fat, 9 to 12 per cent.; phosphorus, 4 to 5 per cent.; calcic phosphate, 22 to 24 per cent.

PRICES: 5-lb. pail, \$1.00; 10-lb. pail, \$1.50; 25-lb. pail, \$3.00. Special price in larger quantities.

GRANULATED MILK For POULTRY

For years poultrymen have been looking for a substitute for animal meal and beef scrap, on account of the offensive odor of the latter, and the uncertainty of keeping it sweet or wholesome during the warm weather. At last the desired object has been accomplished by perfecting a process of granulating a milk product, obtained at the Milk Sugar factories of the United States.

"It is simply concentrated skim milk, but is even much more desirable, because it is in a dry form, and can be fed in any desired quantity. Analysis shows it to contain above 45 per cent. protein, about 15 per cent. of which is clear albumen, also 15 to 20 per cent. fat, the balance being ash, lime, etc. It is one of the richest protein foods known, and cannot fail to be admirably adapted to poultry uses. The cost is about the same as beef scrap."

It will increase your egg production from 30 to 40 per cent. over Beef Scrap and will keep indefinitely in any climate. Just the thing to keep fowls bright and active. 1 lb., 5c.; 25 lbs., \$1.00; 100-lb. bag, \$3.25.

MILK PROTEIN MASH

This Poultry Mash is made of Granulated Milk thoroughly mixed in a well-balanced proportion with the best of grain, seeds, alfalfa, etc. It has double the value of almost any other mash food now on the market.

5 lbs., 25c.; 50 lbs., \$1.50; 100-lb. bag, \$3.00.

Lee's Egg Maker AND Chick Grower

LEE'S EGG MAKER is the biggest value for the money ever offered to the poultry raiser. Being highly concentrated, only a small amount per day is required. It must not, therefore, be compared with foods that require fully twice as much per feed and from two to three feeds per day.

2 1/2-pound package\$..25
25-pound pail2.00

LEE'S GERMOZONE (IN TABLETS OR LIQUID.)

For roup, cholera and other poultry diseases; also skin, scalp and mucous surfaces. Specific for eruptions, inflammations, discharges, sores, wounds, etc. GERMOZONE IS A GREAT REMEDY. Directions with every package. Price, per package, 50c.; per bottle, 50c.

LEE'S LICE KILLER Is easily applied to roost poles and about the poultry-house, and kills all vermin, mites, bedbugs, etc., that have their lodging in the cracks and crevices.

Price: Quart, 35c. 1/2 Gal., 60c. Gal., \$1.00.. 5 Gals., \$4.00.

LEE'S INSECT POWDER Is intended especially for use on setting hens and little chicks. Is also of great value for insects on plants and vegetables, and for general use about household. Price, 20-ounce package.....25c.

SUCCULENTA TABLETS

SUCCULENTA TABLETS do away with all the bother, the time and labor of feeding your chickens green sprouted oats, cabbage, beets, roots and all other green food.

SAVE ONE-HALF THE COST.

Greatest discovery ever made in the poultry industry; simply dissolve a tablet in the drinking water; fowls drink it with a relish.

Via parcel post direct to you:

100 Large Tablets\$.50
250 Large Tablets1.00
500 Large Tablets1.75

HARDING'S SUCCESSFUL ROUP CURE

For Roup, Colds, Canker, etc. One of the best remedies on the market.

Price: 25c., 50c. and \$1.00.

HARDING'S SCALEY LEG CURE

A penetrating antiseptic liquid, easily and quickly applied. Harmless to feathers. An excellent leg polish for the show room. Useful in dressing flesh wounds and sores.

Price25c.

PRIMO LIQUID REMEDY AND TONIC FOR FOWLS

For Gapes, Roup and other internal afflictions. Keep coop clean and disinfect it. Price, pints, 25c.; quarts, 50c.

Primo Universal Pain Killer and Healer for All Kinds of Stock

Contains no minerals or poisons. The magnetic healing effects of this preparation are greatly increased by heating. Heat it and bathe the part affected. Price, pints, 25c.; qts., 50c.

CONTINENTAL OINTMENT

Continental Ointment is a scientifically prepared petroleum product, tasteless and odorless, with remarkable healing properties. But unlike many similar preparations, it is absolutely harmless either externally or internally. There is no limit to its use.

Keep a box in the house, and you will find it useful so often and in so many ways that it will become almost second nature to run for the **Continental Ointment**.

Prices, per box, 25c. and 75c.

HIGH GRADE HEN FEED

**THE BALANCED RATION FOR LAYING HENS.
ALL GRAIN; NO GRIT OR SHELLS.**

This feed is formulated from pure, sweet grains. Only those grains are used that are of known value for producing eggs. This is the feed for the poultryman who feeds for profit. 1 lb., 5c. 10 lbs., 30c. 100-lb. sacks, \$2.50. Special price in larger quantity.

HIGH GRADE CHICK FEED

**"THE FEED THAT IS ALL FEED."
ALL GRAIN; NO GRIT OR SHELLS.**

This feed is absolutely pure and unadulterated, containing no offal or injurious ingredients, such as rice hulls, ground straw or cobs, etc. It will not hurt or scour chicks. 1 lb., 5c. 10 lbs., 30c. 100-lb. sacks, \$2.75.

PULLET OR DEVELOPING FOOD

The demand for a food for developing young chickens has increased with the demand for young chickens for market. This food will develop a large marketable chicken in the least possible time. Just the mixture to make them grow quickly. 1 lb., 5c. 10 lbs., 30c. 100-lb. sack, \$2.60.

MASH FEED TO MAKE HENS LAY

This is a complete mash, containing ground grain, alfalfa meal, meat meal, and everything necessary for producing a large, egg yield. Mix with hot water, and it is ready to feed. 5 lbs., 25c. 25 lbs., \$1.00. 100-lb. sacks, \$2.50.

Blatchford's Fill the Basket Egg Mash

The excess nutriment taken by the hen from Blatchford's "Fill the Basket" Egg Mash causes the development of eggs so that she has to lay during the winter, while the ordinary unbalanced rations tend to produce fat hens, but lean profits.

Blatchford's "Fill the Basket" Egg Mash is made up of Blatchford's Calf Meal, the complete milk-equal, combined with the best quality meat and fish scraps and alfalfa and grain meals. This makes a perfect, balanced egg-producing mash, consisting of protein, 19 per cent.; fat, 4 per cent.; fiber, 10 per cent.

25-pound bags \$1.00
100-pound bags 2.75

G. & T. Co's High Grade Pure Beef Scrap

50 TO 55 PER CENT. PROTEIN.

This Beef Scrap is the highest possible grade, and is made from Pure Beef Trimmings and cracklings, and has no pork or other materials to cheapen same. It is fully guaranteed as to quality and will keep indefinitely. Price: 5 lbs., 25c. 100-lb. bag., \$3.10. Special prices in ton lots.

ALFALFA MEAL

This is a green feed all the year round. Everyone knows that alfalfa is fast supplanting clover. It is very high in protein, and furnishes the chicks a growing food which, at the same time, has a medicinal value. 5 lbs., 25c. 50 lbs., \$1.25. Per 100-lb. sack, \$2.00.

SPECIAL CUT (Not Ground) ALFALFA

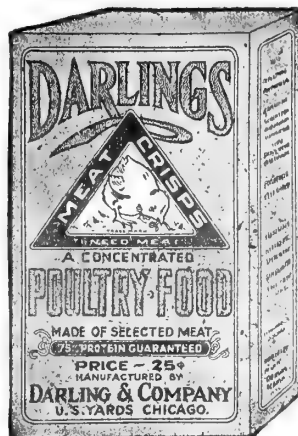
Practically dustless, high color and thoroughly cut, not ground. Sold in 10-lb. packages, 25c.; 50-lb. bags, \$1.25; 100-lb. bags, \$2.25. Special price in half ton and ton lots. Coarse cut, 1 inch long and fine cut, almost as fine as Alfalfa Meal, only lacking the dust and dirt of regular Alfalfa Meal. Supply limited, so order promptly.

BONE MEAL FOR POULTRY

This is exactly the same as the Cracked Bone described below, only it is ground much finer. 5 lbs., 25c. 10 lbs., 40c. 50 lbs., \$1.75. 100-lb. sack, \$3.25.

CRACKED BONE FOR POULTRY

This article is manufactured from fresh, clean bones, and is perfectly pure and sweet. No chemicals whatever are applied to them in the course of manufacture. Should be fed to the poultry daily, like grain or any other feed. An excellent bone and egg producer, keeping the fowls strong on their legs and largely increasing their laying qualities. Especially valuable for young and growing chicks. We carry two sizes, No. 1 for grown fowls, and No. 2 for young chicks. 5 lbs., 25c. 10 lbs., 40c. 50 lbs., \$1.75. 100-lb. sack, \$3.25.



DARLING'S MEAT CRISPS

A clean, wholesome High Protein (75 per cent. guaranteed) Meat Product. Although Darling's Meat Crisps is a little higher in price than the ordinary product, the greatly increased feeding value (due to the High Protein content), and the clean, sweet character of this feed make it more profitable to feed. Each hen laying only one extra egg a month will more than make good the difference, and you are building a healthy, prolific flock.

3-pound package..... \$.25
6½-pound package..... .50

White Diarrhoea and Chicken Cholera can be cured and prevented by **AVICOL**.

FOR PREVENTION - FOR CURE AVICOL

STOP THE LOSSES!

You practical poultry breeders, who have had actual experience with these two diseases, realize how much money they have cost you.

Authorities may differ about the causes—but they don't differ about the results. When once in your flock, unless checked at once, you stand to lose heavily.

AVICOL SAVES THE CHICKS—Avicol has a specific and selective action on the germs causing Cholera and White Diarrhoea. It knocks the germs and gives the chick a chance.

Prices: Per Bottle..... 25c., 50c.

GRANULATED CHARCOAL

A little ground charcoal mixed with the soft feed in the morning, once or twice a week, is an excellent corrective for the fowls, and keeps them healthy. We carry three sizes, one for grown fowls, one for small chicks, and pulverized. 5 lbs., 30c. 10 lbs., 50c. 25 lbs., \$1.00. 50-lb. sack, \$1.25. 100 lbs., \$2.00.

BLATCHFORD'S LAMB FOOD

A Baby Food for Baby Lambs. Because it fully substitutes the ewe's milk for motherless lambs. It carries all lambs in a thriving condition safely and rapidly from weaning time to the early market.

25-pound bag \$1.00
50-pound bag 2.00
100-pound bag 3.50

BLATCHFORD'S PIG MEAL

The safety route from pignood to porkage. All "baby" pigs should be weaned on this strengthening tissue-builder. They will grow continuously and rapidly, developing bone and size without taking on surplus fat.

100 pounds makes 100 gallons of milk-substitute.
25-pound sacks \$1.00
50-pound sacks 2.00
100-pound sacks 3.50

PURITY PIGEON FEED

The mixture contains a great variety of grain and seeds properly balanced under the direction of a successful man who has had years of study and experience with pigeons. No grit. No shell. 1 lb., 5c. 10 lbs., 30c. Per 100-lb. sack, \$2.50.

CRUSHED OYSTER SHELLS

It aids digestion as well as supplying lime. Experiments have proved that hens supplied with oyster shells lay more eggs. We carry two sizes in stock, No. 2 for grown fowls, and No. 3 for young chicks. 5 lbs., 10c. 100 lbs., 60c. 500 lbs., \$2.75. Special prices in larger quantities.

MICA QUARTZ GRIT

(Poultry, Pigeon and Chick Sizes.)

Grit is as essential for poultry as food, as without it they cannot digest the food. Poultry will starve to death with full crop for no other reason than they have no teeth with which to grind the food into proper consistency. Grit should be mixed with the food and fed in hoppers or boxes, about one part of grit to fifteen or twenty parts of food. 5 lbs., 15c. 100-lb. sacks, 75c.

HORSE AND CATTLE REMEDIES



BY USING KOW-KURE THE GREAT COW MEDICINE

the milk. It is a medicine for cows only. Prices, small size, 50c.; large size, \$1.00.

Watch every cow, and at the first sign of disorder in appetite, digestion or flow of milk, give a dose of **KOW-KURE**. Carefully follow the directions as given on the box, and that cow will get well.

KOW-KURE is in powder form, to be given in regular feed. It cures abortion, barrenness and scours, caked udder, removes retained afterbirth, purifies the blood, strengthens the appetite, vitalizes the nerves and prevents disease. It increases

BAG BALM

For all diseases of the cow's udder and teats there is no remedy so quick and certain in its curative powers as **BAG BALM**. It is a soothing, penetrating ointment, especially adapted for all those serious and annoying troubles known as caked bag, cow pox, chapped, cracked and sore teats, bunches, chafing and inflammation of all kinds. **BAG BALM** penetrates through the skin and inner tissues at once, reaching the glands, where it reduces the inflammation, breaks up the bunches and spreads its cooling, softening effect to all the affected parts. This remedy has met with unequalled success, and is found on the most progressive dairy farms in the country. Price.....50c.

AMERICAN HORSE TONIC

This tonic is a specific for horses, an actual medicine that goes to the root of all horse ailments and removes the cause of the trouble. A few doses will send a dull, listless horse on its way rejoicing.

Its curative power is wonderful. **AMERICAN HORSE TONIC** is the best remedy known for worms, stoppage of water, all bowel complaints, inflammation of the lungs, recent founders, distemper, coughs, colds and swelling of the glands of the throat. Small size, 25c.; large size.....50c.

HORSE COMFORT

The Most Remarkable Remedy Ever Compounded for Healing Cuts and Open Sores of Every Kind. **HORSE COMFORT** is a liquid preparation which is unequalled in its power to quickly cure all kinds of open sores or abrasions of the skin. It is used by simply wetting the sore spot. No bandages or filthy rags, no rubbing or heating it in. Simply wet the spot and the cure begins. Price, per bottle, 25c and 50c.

"ANTIKOL" HOG CHOLERA



Antikol is specifically designed to prevent and treat **Hog Cholera**. It cannot be a benefit except in cases where a disease is due to germs introduced into the intestinal tract. It is fatal to the hog cholera germ, and yet absolutely harmless to the hog when used in accordance with directions.

Price, \$1.00; 6 pgs. for \$5.00.

DR. LESURE'S VETERINARY REMEDIES

COLIC DROPS—For the treatment of Colic, Cramps, Spasmodic, or Flatulent, Stoppage of Water, Black Water, Indigestion and Scours. Price.....\$1.00 per package.

FEVER DROPS—For the treatment of Lung Fever, Pneumonia, Pleurisy, Inflammation of Bowels, and all troubles of an inflammatory nature. Put up in two sizes, 50c. and \$1.00. The large size contains three times as much as the small.

COUGH AND TONIC DROPS—For the treatment of Coughs, Colds, Distemper, and all troubles affecting the throat and lungs; also a fine tonic and water regulator. Put up in two sizes, 50c. and \$1.00. The large size contains three times as much as the small.

RENOVATOR POWDER—For Bad Blood, Indigestion, Loss of Appetite, and a general run-down condition in Horses and Cattle; tends to prevent Colic and Intestinal Troubles if given occasionally. Not a **FOOD**, but a strictly high-class medicine. Price, 50c. and \$1.00 per package. Large size contains two and one-half times as much as the small.

WORM ANNIHILATOR—For the annihilation of all kinds of Worms that infest the horse; is perfectly safe to give at all times, for it is also a very fine tonic. Price, 50c. per package.

ELECTRIC HOOF OINTMENT is especially used to grow and soften the horse's feet, for Contraction, Quarter Cracks, Brittleness, Tenderness, and all ailments of the feet. It is very healing and is fine for scratches or sores of any kind. Price, 50c. per box.

ALL-HEALING BALM (LINIMENT)—For all kinds of sores and wounds, either new or old. Remedy for Harness Galls, Cuts, Scratches, Thrush, and all sores and soreness. Price 50c. per bottle.

LESURE'S SPECIAL LINIMENT—For nerve, muscle, bone and sinew. Stops pain instantly, reduces swelling, removes soreness and lameness from any cause whatever. Price, 50c. per bottle.

LESURE'S LINIMENT—A penetrator and strong stimulator; adapted to deep-seated lameness, where you want to produce external irritation, as it will blister if thoroughly rubbed in; and, reduced with water, it makes the finest and cheapest wash for turf purposes. Price, 50c. per bottle.

GALL REMEDY—For Saddle Galls, Collar Boils, Cuts, Mud Scalds, Scratches, Rope Burns, etc., upon horses and cattle. Price 25c. and 50c. per box.

DR. LESURE'S FAMILY LINIMENT—For Rheumatism, Neuralgia, Sciatica, and all deep-seated pains and lameness. Price, 25c. per bottle.

ANTISEPTIC HEALING POWDER—For Old Sores and Ulcers, and all sorts of sores that will not yield to liquids and salves. Price, 50c. per can.

DR. DANIELS' VETERINARY REMEDIES

These remedies are all compounded from the best ingredients for the purpose intended. Each is a bona fide prescription of an eminent veterinarian.

You can save the cost many times over by having a stock of these remedies on hand; a 50c. package will many times save a very valuable animal.

COLIC CURE	\$1.00.
OSTER COCUS LINIMENT	25c. and .50
WORM KILLER.....	.50
ABSORBENT BLISTER	50c. and 1.00
GALL CURE	25c. and .50
RENOVATING POWDER.....	.50
COUGH, COLD AND FEVER DROPS.....	.50
WONDER WORKER LINIMENT.....	.50
HOOF GROWER AND SOFTENER.....	.50
CARBO-NEGUS DISINFECTANT	25c. and .50

SAL-MEDICO

THE GUARANTEED WORM DESTROYER.

It contains medicinal properties which immediately kill and expel stomach and intestinal worms and parasites, at the same time restoring the digestive organs to a normal and healthy condition.

Start now and save Stock and Hog losses.

10-lb. package	\$0.30
16-lb. pail	1.00
40-lb. pail	2.25
100-lb. bag	5.00

BLATCHFORD'S CALF MEAL

THE BEST WAY TO RAISE A CALF WITH LITTLE OR NO MILK

Feeding Directions—For very young calves, let the calf run with the cow for three days, then feed it the mother's milk from a bucket for two days more—three pints of milk three times a day. In this way it gets all of the cow's first milk (colostrum), and this will clean the bowels and start the digestive organs of the calf properly. After the fifth day from birth, take two tablespoonfuls of Blatchford's Calf Meal, add hot water and stir this into a thick paste, free from lumps. Then add one quart of whole milk and one quart of separator milk, stir thoroughly and feed blood-warm. This amount should be fed three times a day. Continue this, gradually substituting separator milk for the whole milk. Full feeding directions for young and old calves are printed on a card and will be found in every bag. These directions will serve as a general guide. Calves vary so much in size, strength and digestive capacity that much must be left to the discretion of the feeder. We have discontinued the publication of a minutely detailed feeding table, having found that it is apt to be too rigidly followed. Even some of the higher authorities connected with the agricultural work in this country make this error. The objects to be attained in feeding calves are rapid growth, health and quality. To obtain these calves require Blatchford's Calf Meal; clean housing; clean feeding utensils; plenty of sunlight; regularity in time of feeding; and, above all, not to be overfed. Overfeeding causes acidity of the stomach—bloating or pot-gut—a dull, lazy condition instead of energy and playfulness. Don't overfeed! Darkness and gloom beget disease, destroy cheerfulness and materially lessen growth. Therefore it is important that calves be placed in well-lighted stalls.



DOUBLED FARM PROFITS.

Maturing or weaning all your calves rapidly on Blatchford's Calf Meal, at a cost of about one-fifth of what you get for your milk, then selling all the milk at a good profit, should appeal to you and to every wide-awake farmer as a good, profitable proposition. These profits, both ways, need not be guessed at; they are discernible at a glance. Another source of profit that heretofore has been overlooked by most farmers is the raising of the fall and winter calf on this same milk-substitute. Many farmers and dairymen have taken up winter dairying, reaping the extra big profits on milk and cream during the winter months, but often the calf has been immediately "murdered." Calves raised during the winter give you veal during the term of high prices and are just as easily raised then as during the summer. Fall "freshening" is greatly to be desired. With the help of the silo or an abundance of alfalfa hay the winter feeding keeps up the milk supply until the new grass comes in the spring. The new pastures stimulate the milk-flow and keep it up through the summer. The winter milk prices more than offset the cost. When you stop to consider that this complete milk substitute costs you less than skim milk and is far better for calf-raising—made expressly for the calf—you will get some idea of its high efficiency. It is made from several kinds of whole grains and seeds, and includes oil, sugar and albuminous compounds, pure locust-bean meal and pure flaxseed ground, with the oil left in. You cannot begin to get the results from any other method of calf-raising that you can get from feeding Blatchford's Calf Meal, the complete milk equal.



Prices: 25-lb. bag, \$1.00; 50-lb. bag, \$2.00; 100-lb. bag, \$3.50.

Avoid Costly Methods of Feeding

FROM NOW ON USE

RYDE'S CREAM CALF MEAL

Richest Substitute for Milk.

WHAT THIS WONDERFUL CALF MEAL IS.

It is a combination of oleaginous and leguminous seeds and lentils, flour, flaxseed, carob beans, cocoa meal, etc., combined in the correct proportion that long experience has shown to be just what is required by young calves to promote a thrifty bodily growth. All hulls, fiber and indigestible matter is carefully removed to avoid danger of scouring and the whole is thoroughly cooked by special process, rendering it very easy to digest and assimilate. Our large factory is devoted exclusively to making Calf Meal.

WHY RYDE'S CREAM CALF MEAL IS BETTER THAN GRAIN OR MILL FEED.

Experience shows that only one or two kinds of feed do not contain the variety of elements necessary to develop the component part of the calves. Some feeds or grains contain a predominance of flesh-forming material, others contain a bone or muscle-forming material. When fed alone this gives a one-side ration and one portion of the body is developed to the detriment of the other. In addition, grains and mill feed contain a considerable portion of fiber and indigestible matter which when fed particularly to very young calves usually cause more or less scouring.

Prices: 25-lb. bag, \$1; 50-lb. bag, \$2; 100-lb. bag, \$3.50.

SAL-VET

The Great
Worm Destroyer.

The Great
Live Stock Conditioner.

SAL-VET is a medicated salt—a safe, simple, inexpensive remedy which gives stock the medicines they need along with the salt they crave. It requires no dosing, no drenching, no starving. It goes into the stomach and intestines and loosens the leach-like hold these blood-sucking parasites have on the tender linings. It drives the robbers out—without bother or trouble to you. Your animals eat SAL-VET in place of common salt and thus doctor themselves.

PROTECT YOUR HERD AGAINST DISEASE.

Don't pay the frightful price of worm neglect. Don't wait until cholera breaks out in your neighborhood. Fortify your stock against disease. Get rid of the blood-sucking, disease-breeding worms now. Put every animal on your farm in a healthy worm-free condition so they can get more good of what they eat—gain faster—make you more money.

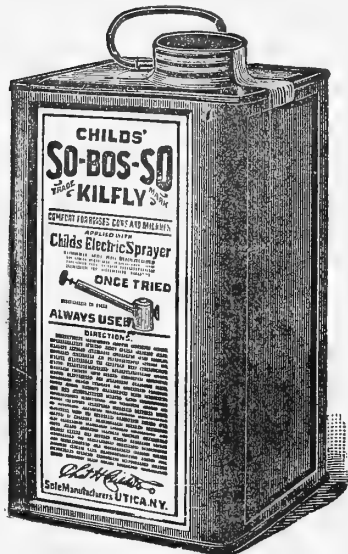
A SINGLE WORM-INFESTED HOG IN YOUR HERD IS A CONTINUAL MENACE TO YOUR HOG PROFITS.

It is the worm-infested, half-starved animals that spread the deadly worm curse over your farm. They are disease-breeders and disease-carriers of the worst kind. Helpless themselves to resist contagion, they let down the bars to the cholera scourge and death stalks through your herd. They are the danger spots in every herd.

10-lb. packages "Sal-Vet".....	at	\$.75 each
20-lb. packages "Sal-Vet".....	at	1.25 each
40-lb. packages "Sal-Vet".....	at	2.25 each
100-lb. kegs "Sal-Vet".....	at	5.00 each
200-lb. barrels "Sal-Vet".....	at	9.00 each
300-lb. barrels "Sal-Vet".....	at	13.00 each
"Sal-Vet" Brand Poultry Tonic.....		.25 size
"Sal-Vet" Brand Poultry Tonic.....		.50 size
"Sal-Vet" Brand Poultry Tonic (12 1/2 lb.).....		1.25 size
"Sal-Vet" Brand Poultry Tonic (25 lbs.).....		2.25 size
"Sal-Vet" Brand Lice Powder.....		.25 size
"Sal-Vet" Brand Roup Powder.....		.50 size
"Sal-Vet" Brand Heave Remedy.....		.50 size
"Sal-Vet" Brand Cow Remedy.....		.50 size

SO-BOS-SO

TRADE KILFLY MARK

MORE MILK!
MORE MONEY!

Cows will give 15 to 20 per cent. more milk if protected from the torture of flies with So-Bos-So Kilfly. Kills flies and all insects; protects horses as well as cows. Perfectly harmless to man and beast. Rapidly applied with Child's Electric Sprayer, 30 to 50 cows sprayed in a few minutes. A true antiseptic; keeps stables, chicken houses, pig pens in a perfectly sanitary condition.

What is more trying to the patience than to milk a cow when she is continually stepping back and forth and lash-

ing her tail under the irritation of a lot of flies? A moment's work with a Sprayer and a little So-Bos-So Kilfly, and all is quiet and serene. From 30 to 50 cows can be sprayed in a few moments.

Put up in One-Gallon Cans.

Each Can Bears the Trade-Mark Seal.

Price—1 gallon75c.

Sprayer for applying So-Bos-So, 50c.

DOMINION FLY SPRAY

Exclusively for protecting Dairy Cows, Steers, Horses, etc., from TEXAS FLIES and ALL INSECT PESTS.

DOMINION
FLY SPRAY

is an oil heavily charged with chemicals, having the peculiar property of giving off for a long time a vapor which drives away all kinds of flies. DOMINION FLY SPRAY contains about 4 per cent. cresol, and is perfectly safe for use on all animals. If the animal licks it, no harm will result. Cows sprayed with this every morning go through the heat of the day with ease and comfort. Such cows keep up their flesh and their flow of milk; where cows are left to the ravages of flies, they fall off in flesh and the flow of milk is greatly reduced.

1-Quart Cans\$.35
½-Gallon Cans60
1-Gallon Cans 1.00
Sprayers used for putting on Fly Spray, 50c.

LEWIS'
LICE AND FLY
DESTROYER

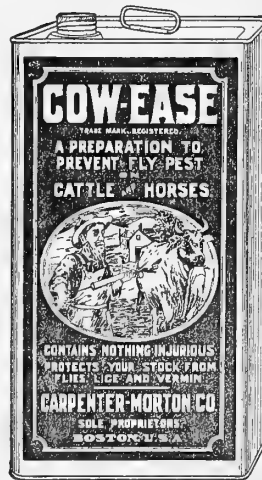
PROTECTS YOUR STOCK FROM FLIES AND LICE.

We guarantee that our Lice and Fly Destroyer will kill flies on cows and keep them off all day, and kill Cattle Lice; also Body Lice on Poultry and Mites in the Poultry House if used according to directions. No fly or lice killer offered by any other firms or individual at any price surpasses Lewis'.

Increase the Flow of Milk by spraying your cows with Lewis' Lice and Fly Destroyer. Allows cows to feed in peace, making more milk and more money for you. Keeps cows in good condition and saves many times its cost in extra milk.

Increase the Egg Production by using Lewis' Lice and Fly Destroyer. It is the best thing on the market that will actually kill body lice on fowls and animals. Keeps your poultry houses and barns free from all lice, mites, flies and insects. Saves feed and increases the production of eggs and milk.

Prices—1 qt., 35c.; 2qts., 60c.; 1 gal.\$1.00

Cow-Ease
RELIEVES CATTLE AND
HORSES FROM FLIES

A liquid preparation carefully compounded from effective materials. It is of the right consistency for applying with a sprayer, and it will not gum the hair or blister the skin.

Every dairyman and every owner of livestock should use Cow-Ease during the summer season. Its use is a humane act, and it also saves money for the stock owner, as a herd of milch cows that are sprayed regularly through the summer months will yield on the average from 10 to 20 per cent. more milk than they would if Cow-Ease was not applied.

In the case of horses: a mettlesome horse will lose flesh in fly time, whereas if he is sprayed lightly with Cow-Ease before driving, he will keep in good condition. Spray interior of stable and stall and see the flies go.

A Sure Preventive for Lice, Ticks and Vermin.

A light application of Cow-Ease will relieve cattle from lice, also prevent tick—the cause of Texas Fever.

Cow-Ease is an excellent article for spraying the interior of hen houses, also roosts and dropping board; it will prevent head lice and fleas and keep the house in a sanitary condition.

In sultry weather a herd of milch cows should be sprayed twice a day. Only a very small quantity is required. If possible spray in the morning and at night before milking.

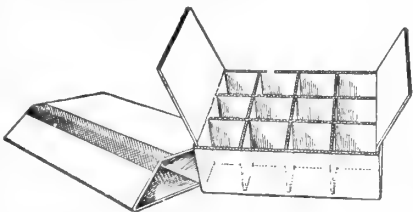
Prices:

Qt., 40c.; ½-gal., 60c.; gal., \$1.00; 5-gal. can, \$4.50.
Sprayer for applying Cow-Ease, 50c.

EXPRESS AND PARCEL POST PACKAGES

PARCEL POST EGG BOXES.

Eggs need protection. This shipping package is so constructed that the eggs are separated by a thickness of corrugated board and the entire contents are surrounded by a double wall of air-cushioned corrugated board. Absolute protection is therefore assured, as the box possesses sufficient strength and durability to stand the usual rough handling in transit. Their extreme light weight, when compared with other packages, will, in many cases, save the postage for an extra pound. Fold flat for shipment.



Eggs—For shipment in zones each Egg must be wrapped with cotton, excelsior, newspapers, tissue paper or material of a similar nature when shipped in our boxes and box so wrapped that nothing can escape from the package. Any commercial wrapping paper is acceptable.

Eggs—For LOCAL DELIVERY our boxes are all right without additional wrapping inside or outside.

Weight limit for first and second zones is 50 lbs.—for all other zones, 20 lbs.

Boxes holding 1 doz.....	\$.60 doz.
Boxes holding 2 doz.....	.70 doz.
Boxes holding 3 doz.....	1.00 doz.
Boxes holding 4 doz.....	1.20 doz.
Boxes holding 5 doz.....	1.40 doz.

TUCK END BUTTER CARTONS.

(Not Corrugated.)

FOR ONE-POUND SQUARE PRINTS,
4½x2 9-16x2 9-16.

To be used in connection with Corrugated Boxes described below.

For Butter, our Tuck End Butter Cartons (to be used in combination with Corrugated Boxes described on this page below for Parcel Post shipping) furnish a sanitary and convenient method of packing. These Cartons are made of the best grade of manila paper, paraffined both sides. When neatly printed with your name and address, they not only furnish an effective container, but serve to advertise your business.

No additional charge for printing.

One design, one color of ink (any color desired).

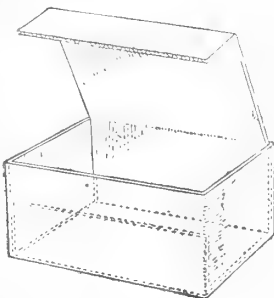


In lots of	Price, per M
1M.....	\$9.25
2M.....	6.88
3M.....	6.15
5M.....	5.70
10M.....	5.05
25M.....	4.55

F. O. B. Chicago, Ill. Packed 100 to bundle. Cannot fill orders for less than 1 bundle.

BUTTER BOXES FOR PARCEL POST.

This two-piece corrugated box is designed to hold 1, 2, 3, 5, 10 lbs of butter when packed in Tuck End Cartons, described on previous page, for shipment in LOCAL DELIVERY and FIRST ZONE. The air cells in the corrugated board assist in preserving a uniform interior temperature, making possible the delivery of the butter in a cool, sweet and sanitary condition. Folds flat for shipment. Butter will be accepted in our boxes without additional wrapping for local delivery—when wrapped they are O. K. for first zone. Butter, Lard, or any admissible greasy or oily substance when packed in a METAL container and hermetically sealed and enclosed in our box and securely wrapped will be accepted for all zones—when in glass is not acceptable in our boxes, outside of Local and First Zone.

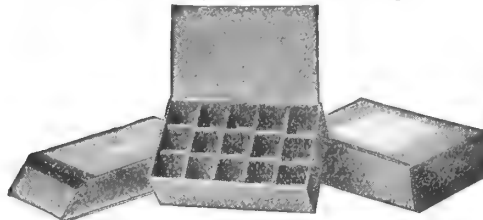


Size.	Packed.	Price	Wt.
		per M.	per M.
1—1-lb. 2¾x2¾x5¼	200 per bundle.....	\$12.80	140 lbs.
2—1-lb. 5½x2¾x5¼	100 per bundle.....	17.60	235 lbs.
3—1-lb. 8¼x2¾x5¼	100 per bundle.....	22.40	330 lbs.
5—1-lb. 13¼x2¾x5¼	50 per bundle.....	32.00	400 lbs.
10—1-lb. 13¼x5¾x5¼	50 per bundle.....	36.40	620 lbs.

F. O. B. Chicago, Ill. An extra charge of 25 cents per size will be made for splitting bundles.

ANDERSON EGG BOX

For Fancy Eggs for Hatching.



The Anderson Egg Box is made of corrugated paper and has double-faced corrugated paper partitions like the Eyrle, to protect each individual egg. The ability of the Anderson Egg Box to fold flat enables us to ship them in a knocked down condition, third-class freight. They take but little room in storage and are very easy to set up. By sealing the box with gummed strips which we furnish, pilfering or substitution of common eggs for fancy eggs while in transit is eliminated.

PRICES.

	Shipping Weight.	Per Dozen.
1 Setting.....	10 lbs. per doz.....	No. 3, \$1.20
2 Setting.....	13 lbs. per doz.....	No. 4, 2.00
50 Egg Size.....	24 lbs. per doz.....	No. 5, 2.75
100 Egg Size.....	45 lbs. per doz.....	No. 6, 4.75

This box may be used either Parcel Post within weight limit or Express.

Use string instead of sealing strips for Parcel Post.

THE SEFTON LIVE CHICK BOX

Shipped Crated to Save Freight.

	Per Dozen.
25 Chicks. Size 12x6x5.....	\$1.25
50 Chicks. Size 12x12x5.....	1.75
100 Chicks. Size 24x12x5.....	2.90

BOXES FOR FRESH EGGS FOR THE MARKET TRADE

This is not a Parcel Post or Express Box, but is intended for counter and private use. Any one selling eggs will find this box a great convenience, as it obviates any mistakes in the count and also avoids any breakage.

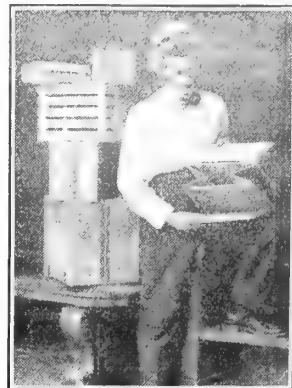
Delaware Egg Boxes, two rows for 12 eggs, per 100.....\$.90
Eagle Egg Boxes, three rows for 12 eggs, per 100......60

DAYS COLLAPSIBLE BOX AND CRATE FOR PARCEL POST, EXPRESS AND OTHER SHIPMENTS

This box after a shipment may be collapsed and returned singly or in lots of half-dozen or more, thereby reducing postage or other charges in transportation from patron to shipper.

These boxes are made of light, strong, seasoned, natural wood. Perfectly sanitary and odorless. Its durability enables the producer to ship Dressed Poultry, Butter, Eggs, Fruit—either green, canned or preserved. Vegetables of every description, etc.

Boxes and Crates are made with a steel handle securely fastened to the top, facilitating its handling in transportation. Special patent hook holding both top and bottom within the outer walls, together with long light steel corner hinges, so reinforces the whole box, and making it stronger than any other shipping box yet produced.



No. 4 to carry 4 doz. eggs.....	\$.90
No. 6 to carry 6 doz. eggs.....	1.00
No. 8 to carry 8 doz. eggs.....	1.10
No. 15 to carry 15 doz. eggs.....	1.25
No. 30 to carry 30 doz. eggs.....	1.50

PRAIRIE STATE INCUBATORS

THESE MACHINES ALL BEAR THE INSURANCE UNDERWRITERS' LABEL

The Prairie State Sand Tray Incubator No. 1 and No. 2



For this new season we will offer a full line of incubators meeting every existing condition, all embodying the well-known Prairie State principle, all equipped with the sand-tray method of supplying humidity, and with the Prairie State Patented Eddy-current Heat Distributor, giving uniform heat distribution even in a two-thousand egg machine—a feat never before accomplished without tray-raising or lowering devices.

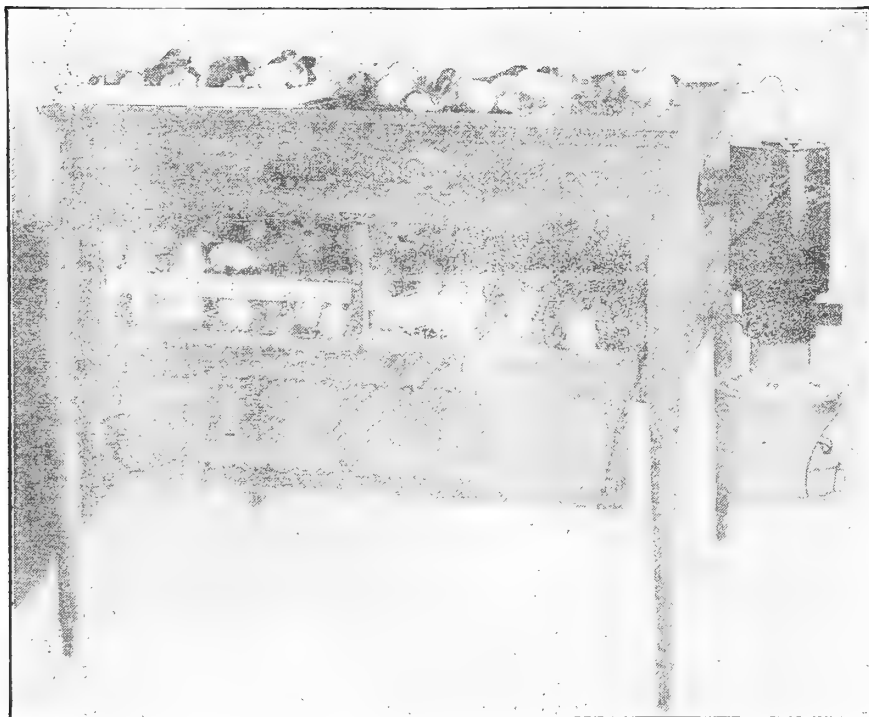
Prairie State Incubators contain many exclusive patented features found in no other machine. The Sand Tray models have the best reputation ever made by any incubator for high hatching results—for large chicks of extreme hardness. Remember, profit comes from the "Chicks that Live."

THE PRAIRIE STATE SAND TRAY

with nursery—our standard for the past eight years. It is offered now in a further improved condition, fitted with our latest type fool-proof heater, and provided with a wire chick tray substituted for the burlap formerly used, which, resting just above the sand tray, permits this tray to remain throughout the hatch, thereby retaining uniform humidity until completion.

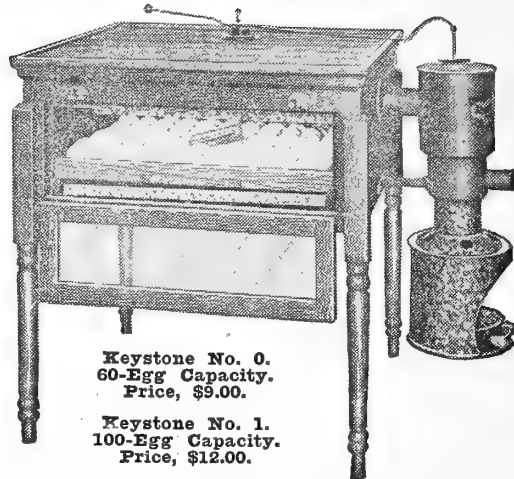
No. 0—100 hen eggs; 125 lbs. crated.....\$18.00
No. 1—150 hen eggs; 160 lbs. crated.....22.50

The Prairie State Sand Tray Incubator Nos. 3 and 4



No. 2—240 hen eggs; 240 lbs. crated 32.00. No. 3—390 hen eggs; 275 lbs. crated 38.00.

KEYSTONE INCUBATOR



Keystone No. 0.
60-Egg Capacity.
Price, \$9.00.

Keystone No. 1.
100-Egg Capacity.
Price, \$12.00.

is small, compact, efficient, moderate in price. Designed for fanciers, for beginners, or for those who wish to hatch only a few chicks each year. Given to the trade only last season, somewhat as an experiment, it instantly made a record for high hatching, efficiency, which has prompted us to offer it again in a perfected condition, with every weak point removed.

No. 0—60-Egg, \$9.00. No. 1—100-Egg, \$12.00.

EGG

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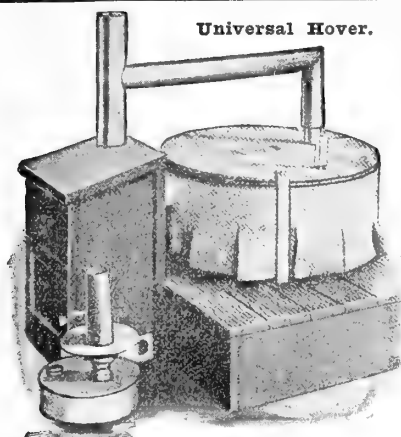
Price, 25c. Postpaid, 35c.

INCUBATOR LAMPS

No. 1 Lamp and Burner, using 1/2-inch. wick60c. each.
No. 2 Lamp and Burner, using 1-in. wick65c. each.
No. 3 Lamp and Burner, using 1 1/2-in. wick75c. each.
Brooder Lamp, complete.....75c. each.
No. 1 Sun Hinge Burner25c.
No. 2 Sun Hinge Burner35c.
No. 3 Sun Hinge Burner50c.
Nos. 1 and 2 Wicks.....15c. doz.
No. 3 Wicks.....25c. doz.

Prairie State Tested Thermometers

No. 1—Hang-up Thermometer, with wire hanger, each, 60c; price, postpaid65c.
No. 2—Universal; may be used as hang-up, reclining, stand-up or inclining with proper holder. Without holder, each, 50c.; postpaid.....55c.
No. 3—Reclining or lay-down pattern, each 65c.; postpaid.....70c.
No. 5—Incline, with holder, each, 60c.; postpaid65c.
No. 6—Brooder Thermometer for Prairie State Brooders, each, 50c.; postpaid55c.



Universal Hover.

PRAIRIE STATE UNIVERSAL HOVER

It may be attached to any form of outdoor brooder, two feet or more in height, to any size or form of colony house, shed, coop, piano, dry goods or organ box. It also enables those who wish to build their own brooders to get the best brooding device possible in an economical manner. It fills that want, felt by everyone who raises poultry, for something they can use anywhere, any time, and do the work well.

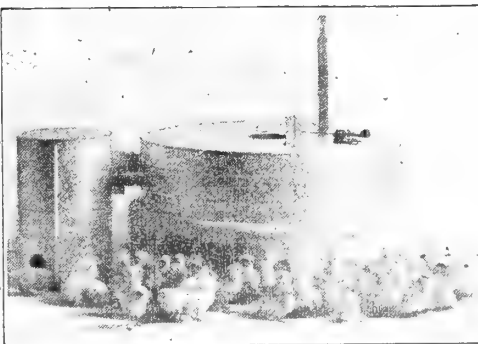
The hover is twenty-two inches in diameter, the top of which is wood, lined with strawboard, a 4-inch rim extending downward, to which is attached six inches of felt curtains. The hover stands on three iron feet, but is not stationary, and may be raised and moved instantly, if desired.

A thermometer is provided, which may be read from the outside without disturbing any part of the brooder. The lamp used is made of metal, using a No. 2 San Hinge Burner and a metallic chimney seven inches in length, thus assuring a steady, bright, clear flame; the lamp being on the outside of the brooder in view at all times. Surrounding the hot-air flue or chimney is a fresh-air pipe through which fresh air, slightly warmed, is injected into the upper part of the brooder. This diffuses downward and through the curtains, thus furnishing a perfect system of ventilation. At an additional cost of \$1 to the regular price a standard Wafer regulator may be attached to the hover, by the use of which a uniform temperature can be maintained without close attention. It is not essential, but a great convenience during the cold, changeable weather, and greatly aids the operator in supplying the desired conditions for newly hatched chicks, relieving him of any cause of worry concerning the brood.

UNIVERSAL HOVER—Price for hover, with lamp case, smoke conductors, lamp and thermometer\$7.00
When used indoors alone, lamp case and smoke conductors are not required.—Hover and lamp 6.00
Hover regulator, \$1.00 extra.

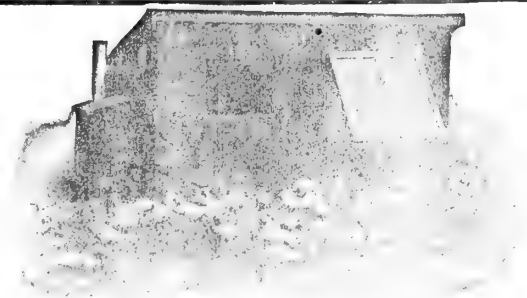
THE PRAIRIE STATE PORTABLE HOVER

The Prairie State Portable Hover embraces in principle and construction all those original and successful features which at once established the high reputation of the Prairie State Universal Hover. It is a Universal Hover so modified as to bring the lamp case to the floor level without sacrificing safety, economy of oil consumption, or ventilation, and involving attached lamp case and all-steel construction. It is a Portable Hover built along lines different from all others. Contrary to general practice in building Portable Hovers, we have so designed this hover as to furnish a lamp case which is a separate unit in itself, entirely detachable from the hover proper, if so desired, being quickly attached by a unique and simple clamp, distinctively Prairie State. The arrangement is therefore such as to prevent interference in the hovering space by the intrusion of any part of the lamp box or by other drums or similar obstructions. This is to be particularly noted, for the tendency of young chicks to crowd against such obstructions is well known, and the danger from crowding against hot or cold drums is easily recognized. Furthermore, in hovers involving location of lamp at the center, there is the added danger resulting from similar tendency to approach a light, or to huddle in spots which are warmer than the space surrounding. Removal of all such obstructions, with uniform distribution of heat from above in all parts of the hover, renders every square inch of the hovering space equally available to the chicks, and is an exclusive characteristic of Prairie State Portable Hovers. No other Portable Hover now on the market provides a heating power equal to that of the Prairie State, with a correspondingly low rate of oil consumption and an equivalent volume of fresh air constantly forced in for free ventilation. This current of air is taken in through screened openings near the base of the lamp box, is forced therefrom through a space between the smoke pipe and its outer jacket into the body of the hover just under its top and is there radiated and diffused downward, passing out under the curtain. The principle is exactly that of the Prairie State Universal Hover. In its passage, this fresh air current at once cools the lamp to a degree which lowers oil consumption and is at the same time warmed before entrance into the hover. It is readily seen what a contrast this method forms to the poorly located lamp and bad ventilation of center lamp types.



THE COMBINATION COLONY BROODER, No. 1

This Brooder House is constructed of tongued and grooved boards. The brooder is full size in all dimensions, 3 feet wide, 6 feet long and 3 feet high in front and 2 feet in rear, with tin roof. The interior is divided by a movable partition into two compartments—the nursery room and the exercising room or sun parlor. The nursery is double walled, top and sides, with dead-air space and paper insulation between the board partitions, securing warmth and uniform temperature. A strong point in the nursery is the circular hover without obstructions of any kind, such as hot drums or domes, leaving every inch of inside space available for the chicks. It is open all around. No cold corners or hot spots to crowd into. A glass door in front, 22 inches wide, furnishes light and access to the chicks. A movable board under the door brings the opening level with the floor of nursery and permits easy cleaning of the apartment.

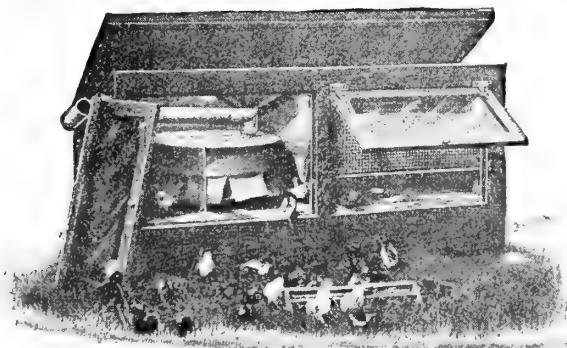


No. 1—Colony (Outdoor). Weight, crated, 300 lbs. \$20.00

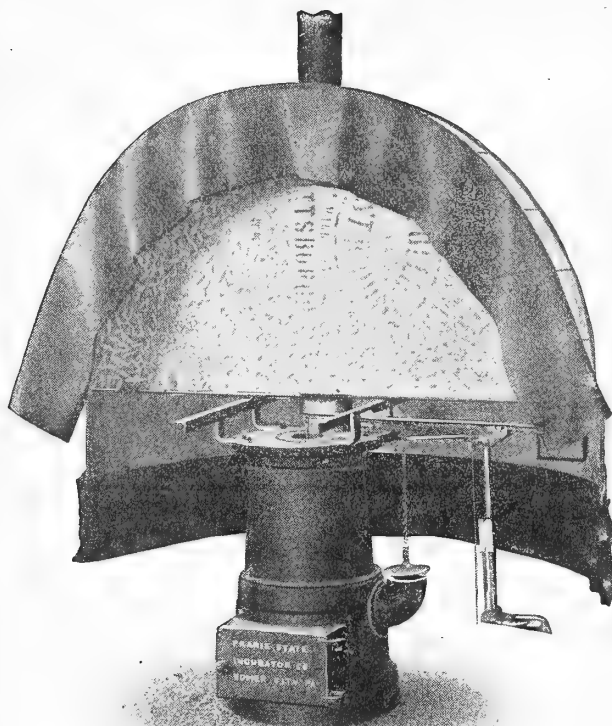
THE COMBINATION COLONY BROODER, No. 2

This Brooder is similar to the No. 1 in construction and is 60 inches long, 30 inches wide, 20 inches high in rear and 30 inches in front.

The interior is divided into two large compartments by a movable partition—the nursery room, and the sun parlor or exercising room; the floor throughout being on a level and 8 inches from the ground. Between the nursery and exercising room is an opening 18 inches wide, with a wooden door, hinged to open and close at will, so when desired the chicks may be confined in either apartment. With the wooden door opened, the space is covered with a heavy felt curtain, slit for easy passage of the chicks back and forth. Two glass doors, 26x14 inches, furnish access to the chicks confined. A movable board below the glass door brings each opening level with the floor and permits easy cleaning of each apartment.



No. 2—Colony (Outdoor). Weight, crated, 208 lbs.\$16.00



THE PRAIRIE STATE STOVE BROODER

The Prairie State Stove Brooder is built solidly of cast iron throughout. This stove is not mounted upon legs. We have learned not to use them because they afford a space under the stove where chicks may huddle and be burned to death. Therefore, the base of our stove rests squarely upon the floor. Bolted to it is a cylindrical cast iron ash pit of ample capacity, fitted with a solid door having non-heating handle and containing no opening through which hot ash or sparks may fly. This door has no function in the regulation of drafts, and need never be opened except to remove ashes. The entire volume of fresh air required for proper combustion passes, subject to action of the regulator, through a cast iron air inlet elbow bolted to the top of the ash pit in such position as to admit air on the grate level. A one-piece jointless fire box rests upon and is bolted to the ash pit casting. It is made of a high-grade foundry iron of chemical content, such as will withstand intense heat through prolonged firing, and with such capacity as to insure maintenance of the fire through long periods. A free flow of fresh air has constant access to the entire fire pot from the bottom as it enters through the air inlet elbow. The top section of the stove, surmounting its fire box and bolted to it, involves in its assembly a cast iron valve seat which makes air tight contact when the upper regulator valve rests upon it. Four angle brackets bolted integral with the top plate to this section, two on each side of chimney opening, serve to support two parallel angle steel bearing bars, upon which rests the galvanized steel canopy or deflector forming the hover proper. Extending to the right of the chimney opening, and securely bolted to the top plate, is a solid cast iron bearer or bracket, from which is suspended the entire regulator. The capacity of the Prairie State Stove is as great as that of any stove upon the market today. That is, it will give heat sufficient to brood as many as one thousand to fifteen hundred chicks, doing it economically and safely. The canopy deflector of the Prairie State Stove Brooder is made of galvanized sheet steel, and in two sections, hinged together on a line with the center of the stove. The regulator with which we equip the Prairie State Stove Brooder is automatic, sensitive, positive, triple acting, and of exclusive Prairie State design. It is of the wafer thermostat type, fastened to a bar extending downward from the regulator support, wafer being placed at a level which has been carefully determined as best for indicating exact floor temperature required.

Price complete, with equipment.....\$30.00

THE EUREKA COLONY BROODER STOVE

SOLID CAST IRON

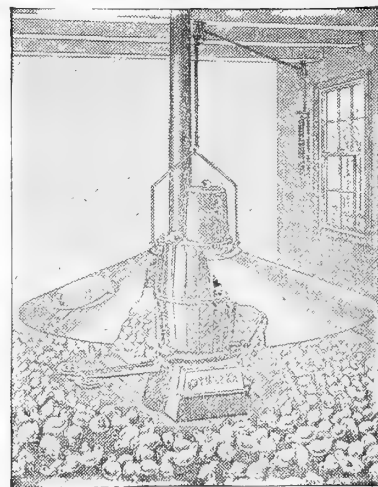
THE STOVE WITH THE CORRUGATED FIRE-POT

Why pay double that amount when at this price you can get a Stove that is just as efficient and durable as any made? There is nothing cheap about this Stove except the price. Made by a large manufacturer of Stoves, and there is not a more durable Stove made at any price.

SPECIFICATIONS.

Height to top of Stove, 23 inches. Height to top of magazine, 20 inches. Diameter of cylinder, 12 inches. Diameter of hover, 52 inches. Duplex grate, which stirs up the fire when shaken, and cleans out absolutely. No dampers in smoke pipe to throw back gas. Fire regulated by thermostats, which open and close check draft on top of Stove. Magazine on top, which adds to the coal capacity and heating surface. Bottom of ash pit is raised 3 inches from the floor, and has asbestos board insulation.

Ash-pit door hinged, which prevents breakage and being misplaced; fire-pot is corrugated, which adds to the weight and strength. The Stove is self-regulating, and requires absolutely no attention, except coaling once in 48 hours and raking once in 24 hours. The hover has a cast-iron ring on top, which sets firmly on top of Stove, and furnished with wire hook, to which pulley may be attached to raise hood. Broods any number of chicks up to 1200; burns hard coal or natural gas, as ordered. Price.....\$15.00



WATER GLASS

Put up expressly for packing away eggs, when they are plentiful and cheap. During the summer months especially eggs are much cheaper than they are in the winter time. With this preparation you can pack them away, and have a supply of fresh eggs all winter. One gallon of this solution is sufficient to mix with enough water to pack away fifty dozen eggs.

At a cost of only one cent a dozen, you will be able to save anywhere from fifteen to thirty cents on the dozen, and have the satisfaction of having your own eggs.

PRICE:

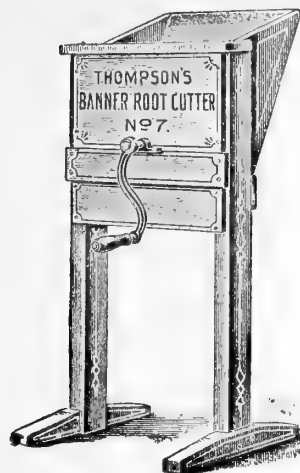
1-quart can	\$.20
1-gallon can .....	.50
5-gallon can	2.00

O. K. POULTRY LITTER

THE O. K. POULTRY LITTER is a fibrous substance to be used on the floor of the poultry house. It absorbs all moisture and keeps the house dry and clean. As a litter for feeding floors, it will be found much better than anything else you could use, as you are always sure of a dry floor, and at the same time you will not be bothered with dust. It is very economical to use, as a floor once laid will last about six months. After cleaning it out of the house you will find it a valuable fertilizer, as it will have sufficient chicken manure in it to spread over quite a large area.

Nothing is so good for little chickens; you should have your brood floors covered with it. It keeps the little chickens dry and clean, and in this way prevents many of the fatal diseases that are prevalent among them.

Large bale\$2.50



Thompson, Jr., No. 7, Root Cutter

THE THOMPSON, JR., No. 7 **ROOT CUTTER** is especially adapted to the use of the poultryman or farmer having a small flock of chickens or a couple of cows. It is so constructed that it will cut roots and vegetables in small pieces, and in this way produce an excellent feed. It will cut one bushel of roots in about five minutes. In cutting the roots the feed value is greatly increased, as in many cases the roots, if fed whole, have little or no value.

This cutter is made from first-class lumber, nicely painted and striped. The knives are made from the best tool steel, and are firmly bolted to the grinding plate, which also acts as a balance wheel. Weight, 50 lbs.

PRICE, \$5.00.

The Ideal Automatic Feeder and Exerciser

It is necessary for poultry to have proper exercise, especially in winter time, when they are penned up, and cannot get out on the run. The Egg Yield will greatly reduce if they do not get this exercise. This feeder is designed for this purpose, and at the same time it assures you that the chickens are getting just the amount of feed needed, without any being wasted.

This feeder is made so that it can be hung from the ceiling, or any suitable place. It will scatter the grain farther than any automatic feeder, and also gives the poultry all the floor space. Simply fill the hopper with any kind of grain you wish to feed, and adjust it to feed any amount you like. Will feed any kind of grain or mixture of grain.

It is the Greatest Labor Saver and Exerciser on the Market.

It will pay for itself in six months in saving of feed, and will increase your egg yield 25 to 40 per cent.

- No. 1, Size 12 Qts., with Sparrow and Rain Guards, complete.....\$2.00
- No. 2, Size 20 Qts., with Sparrow and Rain Guards, complete..... 2.75

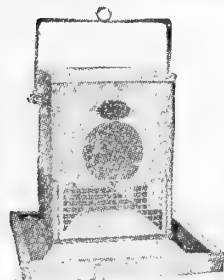


Coates Automatic Feeder and Exerciser

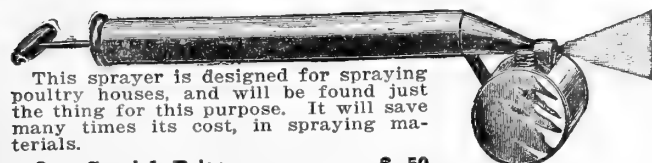
Insures Larger Profit to Poultrymen.

These feeders are made of galvanized iron, and will last a lifetime. They are perfectly constructed, and never fail to give satisfaction. Rats and mice cannot get at the food in these feeders. They require no floor space, being suspended from the ceiling. Hens eat from all sides. Exercise means larger egg production, and at the same time keeps flock healthy.

- No. 2—Cylinder-shaped, for hens, capacity 10 qts.....\$2.00
- No. 3—Square-shaped, for hens, capacity 20 qts..... 3.50



Tin Can Sprayers



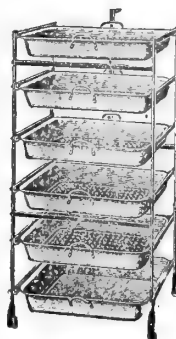
This sprayer is designed for spraying poultry houses, and will be found just the thing for this purpose. It will save many times its cost, in spraying materials.

Our Special Price.....\$ 50

ECONOMY OATS SPROUTER

Its use means sure increase in your production of eggs.

SPRING FOOD CONDITIONS SECURED IN MIDWINTER.



The feeding of sprouted oats is no longer an experiment. Experience has proven time and again its value as a food for stimulating egg production. Oats sprouted in the right manner, furnish food most nearly akin to the fresh, green growth of Springtime, the prolific laying time of the year. By feeding sprouted oats through the winter, egg production can be kept up to a much larger degree than otherwise.

THE ECONOMY OATS SPROUTER employs the natural process for sprouting.

It has a natural drainage, and is effective

and economical to the highest degree. You want more production from your chickens. Get and use an **ECONOMY OAT SPROUTER**, and you will increase your production many per cent. Contains five Sprouting Pans and one Drip Pan 16x17 inches. Will not rust. Lasts a lifetime.

No. 1
Inches 35x18x18
Price, each..... \$5.50

THE Norwich Automatic Exerciser and Feeder

The machine consists of a hopper of sufficient size to carry a week's supply of grain for a flock of corresponding number. Has adjusting valve feed working in conjunction with an agitator disc.

The Feeder is operated by the birds, the feed being deflected in a circle some distance from the feeder keeps the birds in constant exercise.

Being mounted on legs, it can be used either in the house or out of doors.

- No. 1—8-qt. hopper, 13 lbs., \$2.50
- No. 2—14-qt. hopper, 15 lbs., 3.25
- No. 3—20-qt. hopper, 20 lbs., 4.10

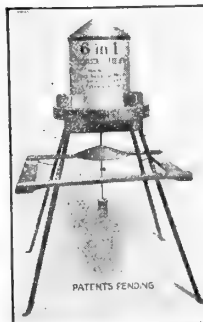


6 IN 1 EXERCISER AND FEEDER

This Feeder and Exerciser fills all the wants of the poultryman.

It is a combination of six feeders in one. With one of them in your poultry plant you can feel sure your chickens are receiving all the food and exercise they require. The compartments for dry mash, meat, oyster shell, grit and charcoal are so arranged that the materials flow readily into outside compartments within easy reach of the chickens on the perch. The body of the 6 in 1 can be lifted from the legs and placed on the floor, in which position it makes a perfect chick feeder.

Price, 20-qt.\$3.75
Price, 40-qt. 4.75





NESCO GALVANIZED DRINKING FOUNTAINS.

1 Quart....	25c.	Dozen....	\$2.50
2 Quarts....	30c.	Dozen....	\$3.00
4 Quarts....	50c.	Dozen....	\$5.00
8 Quarts....	75c.	Dozen....	\$7.50

BALTIMORE FOUNTAINS.

Earthenware.

1 Quart....	25c..	Dozen....	\$2.50
2 Quarts....	35c.	Dozen....	\$3.50
4 Quarts....	45c.	Dozen....	\$4.50



NESCO CONED SHAPED DRINKING FOUNTAIN.

This fountain is made from sheet iron heavily galvanized after it is made, this assures long life, as there cannot be any exposed parts where the galvanizing is peeled off. It is so constructed that the chickens cannot get on top of it or knock it over.

1 Quart....	25c.	Dozen....	\$2.50
2 Quarts....	30c.	Dozen....	\$3.00
4 Quarts....	50c.	Dozen....	\$5.00
8 Quarts....	75c.	Dozen....	\$7.50

IRON POULTRY TROUGHS.



This is an indispensable article for persons raising poultry. Is readily cleaned, and no leaking.

No.	Top.	Depth.	Length.	Weight.	Price.
1 W	3 1/2"	1 1/2"	7 1/2"	3 lbs.	25c.
5 W	3 1/2"	1 1/2"	19"	6 1/2 lbs.	40c.
6 W	6 1/2"	2 3/4"	22"	12 lbs.	80c.
9 W	6 3/4"	2 3/4"	29"	18 lbs.	1.00

The No. 1 W Trough is provided with a lid having three holes, from which chicks can eat the meal without wasting.



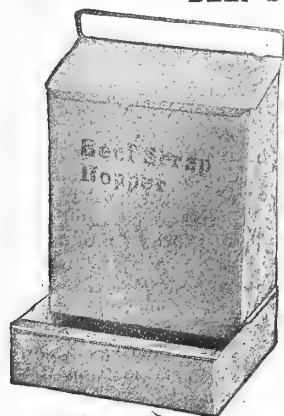
GALVANIZED IRON GRIT AND SHELL BOXES.

Having three compartments, this hopper is very convenient, as you can feed different size shell or grit at the same time.

Made from heavy galvanized steel.

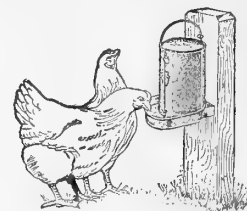
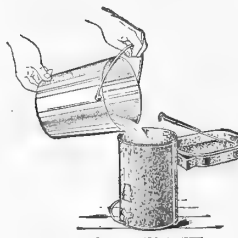
Price, each.....50c.

BEEF SCRAP HOPPER.



This hopper is made of heavy galvanized iron, with lid, handle, sloping bottom and extra deep apron with guard. Taper is from the top down, being larger at the bottom. It will feed beef scrap and dry mash, articles that every user of hoppers knows are difficult to feed. This hopper is a sure and safe feeder, and will not clog. All joints riveted or seamed. Capacity, 10 pounds scrap. Price, each.....70c.

GREY GRANITE KEYSTONE FOUNTAINS.



The construction of this fountain has made it the favorite and it is now considered the most practical, convenient and best made on the market.

Drugs are now commonly used in the drinking water for Poultry to prevent diseases. Drugs cannot be used in galvanized vessels on account of the chemical action on the metal, and it has been necessary to have extra drinking vessels in order to use them.

By using our GREY GRANITE KEYSTONE FOUNTAIN you can use drugs in them whenever you desire and they will not affect the finish or metal.

1 Quart.....	.25
4 Quart.....	.40
2 Quart.....	.50
8 Quart.....	1.00

FAVORITE DRY MASH HOPPERS.

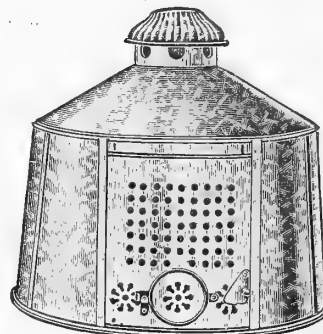


These hoppers are made from heavy galvanized iron, and are so constructed that they can be closed up at nights to keep out mice and rats. They are also provided with a screen to prevent the chickens from scratching the mash out and wasting it.

It not only saves the feed but keeps it before the fowl where they can get as much as they should have. Made in two sizes.

12 Inch.....	\$1.25
18 Inch.....	1.50

NESCO BROOD COOP.



This Nesco Brood Coop is declared by chicken experts to be as near perfect as can be made in meeting poultry requirements.

FEATURES.

The Bottom is entirely separate from the top. It is raised up just inside the edge around which the top rests. Thus water cannot beat in. It can be removed, washed clean and replaced quickly and easily. The Ventilator on the top can be opened wide, or only partly, as desired. The Door lifts up and when wide open the Lock falls into place to hold it securely open. The little round Chick Door gives runway for the chicks, and when closed absolutely excludes rats.

Bottom diameter, 20 inches; height, 18 1/4 inches;
Price.....\$2.00.

FEED AND DRINKING CUPS



Galvanized

Especially Suitable for Exhibition Coops.

Nos.....	0	1
Inches...	4 3/16 x 3 1/8 x 2 1/4	5 1/8 x 3 1/2 x 2 1/2
Price, each	\$0.15	.20

WATER PANS



Galvanized

For Pigeon Baths, Etc.

Better than Stone Jars where used in freezing temperatures.

Nos.....	12	14	16
Inches.....	12 x 3 1/4	14 x 3 1/2	16 x 3 3/4
Price, each..	\$0.30	.35	.40

Nesco Economy Chick Fount



An excellent fountain for the little chicks. Enough clean water all the time, but chicks cannot get into the pan.

No.....	0
Diameter Pan, inches.....	5
Height, inches.....	4
Each	10c

PORCELAIN NEST EGGS

The best and cleanest nest egg used. Each, 5c. Dozen, 25c. By mail, 50c.

LICE KILLER AND NEST EGG

Combined in One.

Lasting, effective. Not expensive. Does not affect the flavor of the egg nor injure it for hatching.

50c. dozen.

WIRE HEN NESTS.

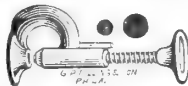
Each.....15c. Per dozen.....\$1.50

French Poultry Killing Knife



Expeditious and humane way of killing and dressing poultry. Price, with instructions, each, 50c.

Philadelphia Poultry Marker



For marking young and old chickens. Made in two sizes, for large or small chicks. Sent by mail on receipt of price, 25c.

Lansdowne Poultry Marker

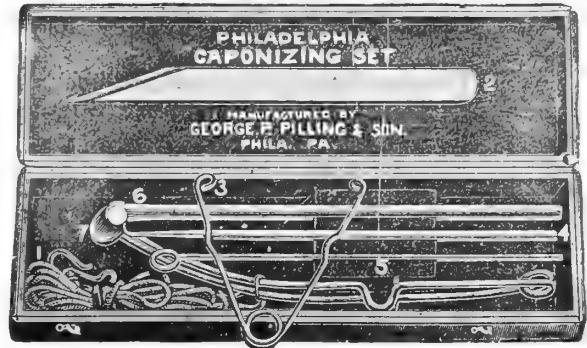


This poultry marker makes the hole without the least exertion. It is made of high-grade steel, nickel-plated. Large or small size, 25c.

Betty's Perfect Pocket Poultry Punch

PRICE, 25c.

CAPONIZING TOOLS



You can do your own caponizing easily with this set of tools. Each tool is made for this especial work, and are of the highest grade. These sets are packed in a neat wooden box.

Philadelphia Set.....	\$2.75
Farmer's Set.....	3.00

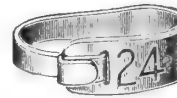
CELLULOID LEG BANDS



These bands come in a variety of colors, and are made in different sizes.

Price, per doz., 20c. Price, per 100 \$1.00

Adjustable Aluminum Leg Bands



These bands are all numbered, and being adjustable, they can be used on any size chicken.

Price, per doz.....	.20c.
Price, per 100.....	\$1.00

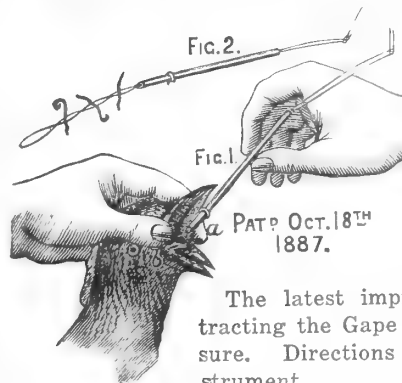
CLIMAX LEG BANDS



Made of spring brass, and so made that the tag acts as a clasp, holding them securely in place.

Price

Per dozen.....	.20c.
Per 50.....	.60c.
Per 100.....	\$1.00

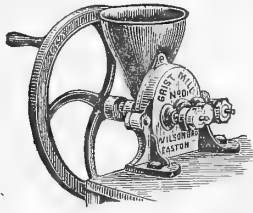


Metz's Gape Worm Extractor

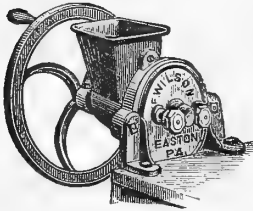
The latest improved method of extracting the Gape Worm. Humane and sure. Directions accompany each instrument.25c.

Philadelphia Gape Extractor, 25c. Each

WILSON No. 0 FAMILY GRIST MILL

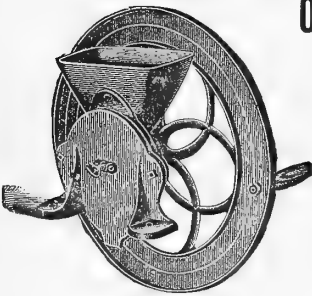


This mill is especially made for grinding Graham Flour or Corn-meal; can be adjusted for cracking grain if desired. **Weight, 30 lbs.**
Price, \$4.00. With Iron Stand, **Price, \$6.00.** **Weight, 65 lbs.;** diameter of hand wheel, 20 inches.



WILSON NO. 1 BONE AND SHELL MILL

No. 1—Grinds oyster or clam shells and dried bones, and is an excellent mill and largely used. Will also grind corn.
Weight, without stand, 33 lbs. \$4.00
Weight, with stand, 64 lbs. \$6.00



O. D. GRINDING MILL

Capacity 1 to 2 bushels per hour, as the mill may be set fine or coarse. **Note flat construction of balance wheel.** May be adjusted for meal or only cracking the grain.

No. 1 F. W. Fly Wheel. List Price, \$4.50; Our Special Price, \$2.75.

No. 1 C. with crank only, less fly wheel. List Price, \$3.20; Our Special Price, \$2.00.



BLACK HAWK FEED AND GRIST MILL

Just the thing for cracking corn, etc., for poultry. Makes best Graham flour and meal for table use.

Grinds corn, wheat, rye, rice, spices, etc. **Weight, 17 pounds. Price... \$3.00**



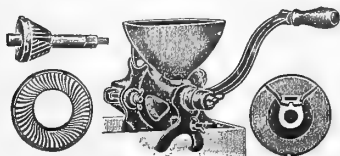
RED CHIEF GRINDING MILLS

No. 1—For Small Poultry Raisers. Price \$ 2.50

No. 2—Best Crank Mill on Earth. Feed gauge to regulate grinding. Price.... 3.00

No. 5—With large capacity, feed gauge and fly wheel. Clamps to box. Price..... 4.00

No. 10—With feed gauge, fly wheel and handsome stand to screw on table. Price 5.00



No. 2

No. 12—Best Hand Mill on Earth; bronze boxes, steel axle, large fly wheel. Price..... 10.00

No. 15—Power Mill for one-horse engine; strong, durable and easy running. Price.. 10.00

MANN'S GREEN BONE CUTTER

LATEST MODEL.

The feed is both automatic and self-governing. Cuts all gristle and meat. Nothing escapes uncut.

No. 5C.—This machine is exactly the same as the No. 5B, with a crank handle instead of a balance wheel. Capacity not quite equal to 5B. **Weight, 35 lbs. \$6.00.**

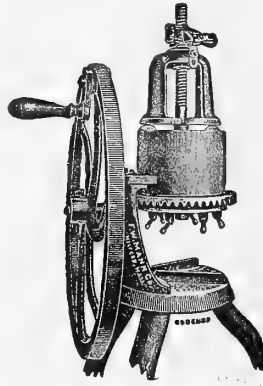
No. 5B.—This machine is exactly the same as the No. 5BM, except that it has not the iron stand. The capacity is the same. **Weight, 60 lbs. \$8.00.**

No. 5BM.—Intended for flocks of 15 to 25 hens. Mounted on iron stand. Cylinder 6 inches diameter, 4 inches deep. Cutter plate has 4 knives instead of 3. **\$10.40.**

No. 7.—Intended for flocks of 40 to 100 hens. Mounted on strong iron stand with large table for box or pan to receive cut bone. **Weight, 107 lbs. Cylinder, 7 1/4 in. in diameter, 5 1/4 in. deep. Capacity, 1/2 to 1 lb. per minute. \$12.00.**

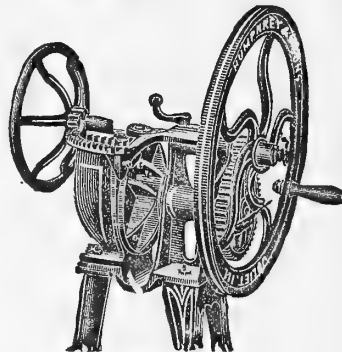
No. 11.—Intended for large flocks of over 100 fowls. **Capacity 100 lbs. per hour. Horse-power required, 1 to 1 1/2. Weight, 215 lbs.**

No. 5BM. Diameter of pulley, 15 inches; 3 1/2-inch face; speed of pulley, 300 to 350 revolutions per minute. Capacity, 100 lbs. and upward per hour. **\$26.00.**



No. 5BM.

HUMPHREY GREEN BONE AND VEGETABLE CUTTER



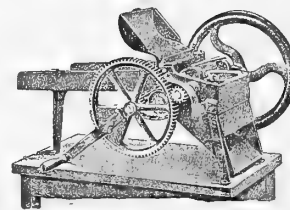
The knives of the Humphrey Cutter act upon the shear principle, producing granulated cutting. **No. 2 1/2** is the same machine as **No. 2**, with the addition of a hand wheel, making it both a hand and power machine.

No. 1 —Hand Power. \$12.00

No. 2 —Semi-power. 13.50

No. 2 1/2 —Hand and Power 15.00

No. 6 —Direct Power 22.00



POULTRYMAN'S CLOVER CUTTER

Designed for cutting, either green or dry, such growths as clover, alfalfa, vegetable tops, etc. These growths are the cheapest and most productive egg-forming poultry foods for cold weather.

With four 7-in. knives; weight K. D., 60 lbs. **\$8.50**

No. 20 Red Chief Grinding Mill

COMBINED HAND AND POWER MILL.

No. 20.—Power Mill for two-horse engine; tight and loose pulley, best of bronze boxes and cold rolled steel axle, capacity 10 to 20 bushels per hour. Has no equal. **Price \$15.00.**

Corn Sheller Attachment, shells the corn and grinds at the same time. **Price extra \$6.00.**

Table Meal Separator, makes fine table meal while grinding stock feed. **Price extra \$5.00.**

All burrs are as hard as can be made, and all of our mills will grind in a satisfactory manner dry bone, oyster shells, old china, etc. New Feed Gauge enables the operator to grind fine without mill turning hard. New Burrs will grind fine and quick.



No. 20

HOME CANNING BOILER **A CANNING FACTORY** **IN EVERY HOME**



Home Canning Boiler, \$15.00

The instructions are so simple that any one with ordinary intelligence and a little precaution can put up canned goods, preserves, jellies and marmalades in as good shape as the finest equipped factory.

The complete outfit consists of boiler, steam gauge, safety valve and crate. Weight, 80 lbs. For persons preferring to use tin cans, a soldering outfit can be furnished at an extra cost of \$10.00, and consists of gasoline blast furnace, two round capping irons and two tipping coppers.

Will successfully can fruits and vegetables in either tin cans or quart glass jars. Pork and beans, which are so difficult to bake in an ordinary oven, can be very nicely put up in this boiler. About 20 pints can be put up at once, and enough pork and beans for the entire year made in a day. The same applies to tomatoes, corn, asparagus, beans, etc., as well as family preserves, which can be put up with or without sugar, as desired.

The boiler will hold 24 tin cans or 14 Mason quart jars at one loading. The work can be done on an ordinary cook stove or range. With every boiler is sent a complete set of instructions and recipes for putting up the ordinary fruits and vegetables. These are the regular canning factory recipes and not the ordinary cook-book style.

HORSE RADISH GRATER

Table Pattern.

The Grater shown is very useful for grating Horse Radish and similar substances. It is made with steel pins or perforated Tin Cylinder. The Coconut Grater is very similar in construction to the Horse Radish Grater, but with cylinders arranged for finer work.

The Foot Power Horse Radish Grater is mounted on a frame and furnished with Treadle and Balance Wheel which gives additional power and steadiness in running. A crank is also furnished for operating it by hand.

With tin clad cylinder for Horse Radish. Price.....\$8.50
 With steel pin cylinder for Horse Radish. Price.....10.00
 With steel pin cylinder for Coconut. Price.....11.00
 With tin pin cylinder for Horse Radish, with legs, balance wheel, treadle and crank. Price.....17.00

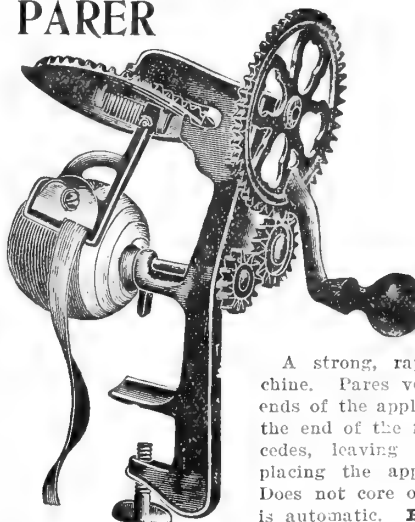
SLIDING KRAUT CUTTER

Sliding Kraut Cutter With Two, Three or Four Knives.

These Kraut Cutters are constructed on the same principle, but are a decided improvement on the old style machines. Each knife is independent of the other and can be quickly adjusted to cut fine or coarse at will.

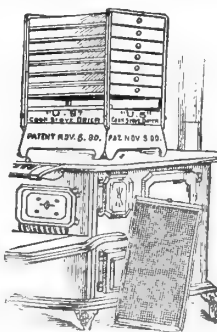
In the old style kraut cutters the knives could rarely be adjusted just right, and if they were, they probably refused to stay. These Cutters are made of heavy hardwood and are fitted with a hardwood box which runs in grooves. Knife perfect, being controlled with 1/4-inch round-head stove bolts.

1898 TURNTABLE APPLE PARER



A strong, rapid durable machine. Pares very close at both ends of the apple. When passing the end of the fork the knife recedes, leaving ample room for placing the apple on the fork. Does not core or slice. Push-off is automatic. Price each...75c.

COOK STOVE FRUIT DRIER



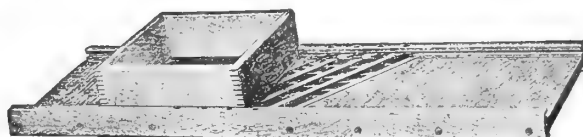
To meet the demand for a small Drier, suitable for use in any ordinary room, kitchen, cook or gasoline stove, we offer the U. S. Drier. It is a very simple, economical, efficient and convenient arrangement, and for farmers use just what is wanted, a durable drier at a reasonable price.

Thousands of housekeepers will have frequent use for just such an article as this, for making quantities of

dried fruit, berries and vegetables for their own use or for sale. It is the most satisfactory and profitable investment you could make. A lady can easily lift it off the stove as it weighs but about twenty pounds. It has interchangeable galvanized wire-cloth trays which will not rust or discolor the fruit, etc., and will last for years. It is made from iron, except tray frames and supports. Its capacity is ample for domestic use, being greater than some machines which sell for \$15 to \$20.

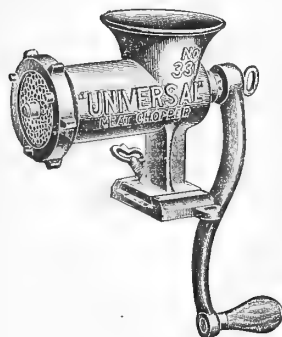
Dimensions, 26 in. high, and takes up space on stove, 21 x 15 inches.

Our Special Price.....\$5.00



No. 50—2 Knives, 8x26 inches.....\$1.25
 No. 55—3 Knives, 8x26 inches.....1.50
 No. 65—3 Knives, 9x30 inches.....2.75
 No. 70—3 Knives, 12x36 inches.....3.75
 No. 75—4 Knives, 12x36 inches.....4.50

THE UNIVERSAL MEAT CHOPPER

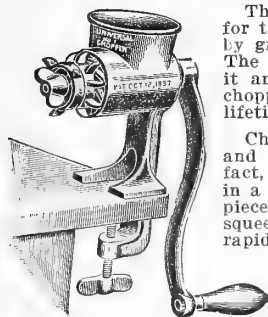


The Universal is the most perfect meat chopper on the market. The feed screw is so constructed that it feeds the meat to the knives without mashing it. The knives work against the plate giving a good clean cut, producing the best grade of chopped meat. The grinders are made in three numbers. The No. 331 has a plate that fastens to the table, as shown in illustration. The No. 333 has an arm that clamps to the table, similar to the No. 1 shown below. The No. 304 has a plate like the No. 331. These grinders are all heavily tinned and will not rust.

No. 331.....	\$2.25
No. 333.....	2.50
No. 304.....	4.00

Stuffing Attachment for Nos. 331 and 333.....	.50
Stuffing Attachment for No. 304.....	.60

THE UNIVERSAL FOOD CHOPPER



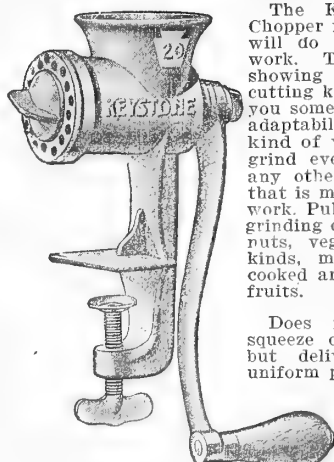
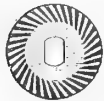
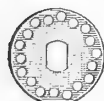
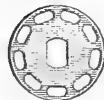
These two choppers are made especially for the kitchen, they will save many dollars by grinding up what ordinarily is wasted. The many uses that it can be put to makes it an indispensable kitchen utensil. These choppers are nicely made and will last a lifetime.

Chops all kinds of meat, raw or cooked, and all kinds of fruits and vegetables—in fact, everything that is ordinarily chopped in a chopping bowl—into clean-cut, uniform pieces, fine or coarse, as wanted, without squeezing or mashing, and with great rapidity.

No. 0, Small Family, three cutters.....	\$1.00
No. 1.....	1.15

No. 0 and No. 1.

KEYSTONE FOOD CHOPPER



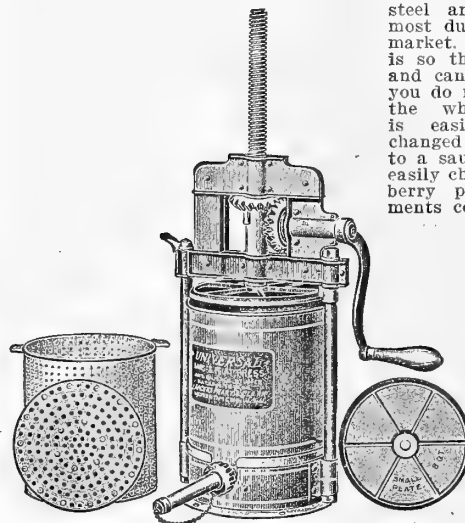
The Keystone Food Chopper is a wonder. It will do every class of work. The illustration showing the numerous cutting knives, will give you some idea as to the adaptability to every kind of work. It will grind every thing that any other grinder will, that is made for similar work. Pulverizing sugar, grinding crackers, bread, nuts, vegetables of all kinds, meats, raw or cooked and all kinds of fruits.

Does not mash or squeeze out the juices, but delivers clean-cut uniform pieces.

No. 10, weight 3½ lbs., will chop 1½ lbs. meat per minute. Price, each.....	\$1.00
No. 20, weight 4½ lbs., will chop 2 lbs. meat per minute. Price, each.....	\$1.15
No. 30, weight 6¼ lbs., will chop 3 lbs. meat per minute. Price, each.....	\$1.50

Stuffing Attachment for No. 20 or 30 Chopper.....	.50
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UNIVERSAL ALL STEEL LARD AND FRUIT PRESS AND SAUSAGE STUFFER



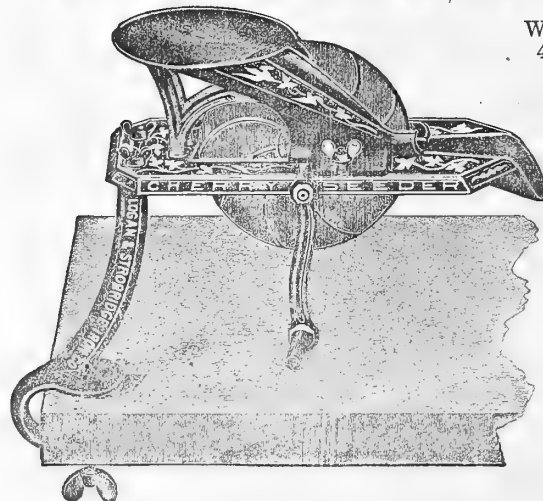
This machine is made of steel and is by far the most durable press on the market. The construction is so that it comes apart and can be easily cleaned, you do not have to handle the whole machine. It is easily and quickly changed from a lard press to a sausage stuffer. Also easily changed to a fruit or berry press. All attachments come with it.

This Machine is an unexcelled Lard Press, an equally good Sausage Stuffer, and is also extensively used for pressing the juices from fruit for making jelly, etc. The "Universal Steel Press" has many advantages over the old style cast-iron press. It is unbreak-

able, rigid and strong, and is more easily handled because it is lighter.

No. 44—4 qts.	\$5.50
No. 66—6 qts.	6.25
No. 88—8 qts.	7.00

CHERRY SEEDERS



Weight
4 lbs.

These cherry seeders are so constructed that they can be adjusted for different size cherries. They work very rapidly and do not tear up the fruit.

The No. 2 Seeder is made as shown in the illustration, having a long clamp arm that attaches to the table by means of a clamp screw. This arrangement gives ample room to place a dish under the seeder to receive the seeded cherries, as there is nothing in the way.

The No. 1 Seeder has four legs which screw to the table. Some users prefer this type.

We can hardly conceive of a person sitting down and seeding cherries by hand when they could buy a good seeder at the price we are selling them.

Each seeder is nicely finished and japanned.

Price No. 1.....	.50
Price No. 2.....	.50

G. & T. BOILER AND FEED COOKER



Heavy cold rolled steel furnace; extra large feed door; wrought iron handles, firmly riveted on. Kettles smooth, heavy cast iron. Door, frame and hue collar cast iron. Never buckles or warps from heat; designed to set on ground or brick foundation; especially adapted for cooking feed, rendering lard, making soap, scalding hogs, poultry, etc. Cast iron flues are constructed inside, thus retaining heat and economizing fuel. We always ship furnace for wood fuel unless otherwise specified. Also used for lime and sulphur.

	Usual Rating.	Actual Capacity.	Diameter of Furnace.	Shipping Weight.	Furnace with Kettle.	Retail Price.
No. 3—30 gallons.	24 1/4	gallons.	26 inches.	160 pounds.	\$13.00.	\$10.40.
No. 4—35 gallons.	30	gallons.	28 1/2 inches.	190 pounds.	14.00.	11.20.
No. 5—40 gallons.	37	gallons.	29 1/2 inches.	200 pounds.	15.00.	12.00.
No. 6—50 gallons.	45	gallons.	31 1/2 inches.	258 pounds.	16.50.	13.20.
No. 8—65 gallons.	60	gallons.	34 inches.	325 pounds.	22.00.	17.60.
No. 9—75 gallons.	72	gallons.	36 inches.	385 pounds.	24.00.	19.20.

KETTLES ONLY FOR G. & T. BOILER AND FEED COOKER.

We always ship furnaces without firepot for coal unless otherwise specified. For wood fuel no firepot or grate is required, but for coal it is necessary to use firepot.

	Usual Rating.	Actual Capacity.	List Price.	Retail Price.
No. 3—30 gallons.	24 1/4	gallons.	\$ 7.00.	\$ 4.90.
No. 4—35 gallons.	30	gallons.	8.00.	5.60.
No. 5—40 gallons.	37	gallons.	10.00.	7.00.
No. 6—50 gallons.	45	gallons.	12.00.	8.40.
No. 8—65 gallons.	60	gallons.	16.00.	12.80.
No. 9—75 gallons.	72	gallons.	18.00.	14.40.

SEPARATOR BOILER AND STEAM FEED COOKER

OUR STEAM BOILER will be found the best on the market. It is made in the most substantial and workmanlike manner. The material in its construction is the best boiler plate steel of 60,000 pounds tensile strength, and tested to 100 pounds hydrostatic pressure, securing perfect safety and ample capacity to users. The fire door is of ample size, and the grate so designed that any kind of fuel may be used. The boiler is the tubular type, the flues passing through the water, giving unusually large heating surface, and as durable and efficient as any engine boiler of same dimensions.

No.	Diameter of Shell.	Height of Shell.	Number of 2-in. Flues.	Height Over All.	Shipping Weight.	Price.
2	19 inches.	44 inches.	13	53 inches.	430 lbs.	\$40.00

Price includes two gauge cocks, blow-off cock, pump, safety valve, 2 ft. 6 in. suction hose, 3 ft. steam pipe with valve, to convey steam to barrel or vat.
 Steam Gauge Extra.....\$2.50.
 Water Glass Extra.....2.00.

STEAM BOILERS OF LARGER CAPACITY

We are in position to furnish larger H. P. Steam Boilers for all classes of work, and will be pleased to quote prices and give specifications on same. Also steam engines to be used in connection with these boilers. Write for special catalogue.

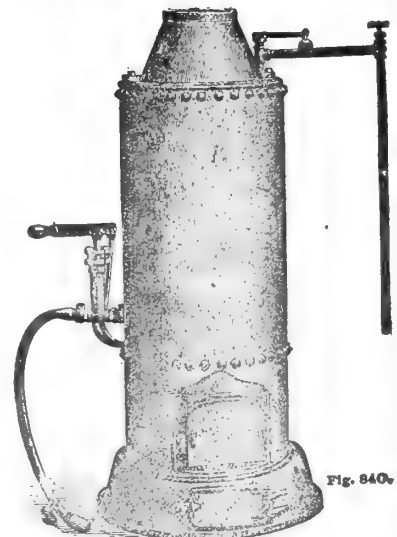
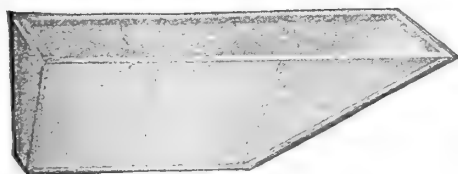


Fig. 840.

SHEEP DIPPING TANK



This Galvanized Sheep Dipping Tank prevents waste of dip from leaking, and is more convenient than wooden vats heretofore so generally used for the purpose.

No.	Height Feet	Length in Ft.	Width in Ins.	Weight lbs.	List Price	Retail Price
711	3 1/2	6	30	12	\$22.50	\$17.00
712	4	8	30	20	29.00	21.75
713	4	8	30	24	30.00	22.50
714	4	8	30	30	31.00	23.25
715	4	8	30	30	31.00	23.25

The above prices include roller to prevent injury to sheep, and to assist in placing them in tank, and detachable metal ladder at opposite end to assist sheep in leaving tank and to reach dripping board.

Steel Hog Scalding and Feed Cooker

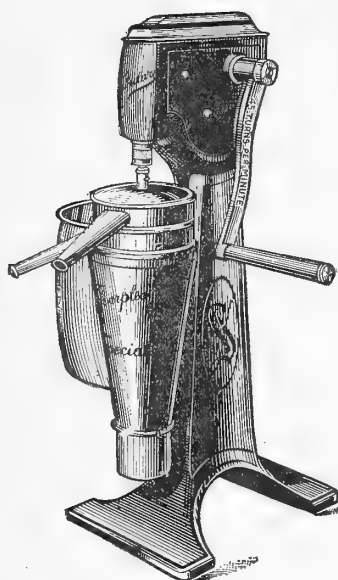


Plain Scalding does very well if placed over a ditch and fire built underneath, but most farmers prefer rack and fire-box complete. Shipping weight, 425 lbs.

Plain Scalding, with legs, 6 ft. x 30 in. x 18 in. deep. List price, \$16.00; Our Special Price, \$14.00.

Fire-box with 5 in. pipe hole. List price, \$13.00; Our Special Price, \$11.75.

Dumping Rack with lever. List Price, \$13.00; Our Special Price, \$11.75.



THE NEW SHARPLES Suction Feed Tubular Cream Separator

Purdue University officials estimated recently, after an extensive investigation, that the farmers of the United States were probably losing \$100,000,000 per year in butter fat by turning their cream separators at improper speed. Another test made by a company which manufactures speed indicators for cream separators and other purposes showed that out of 40,000 men and boys who tried to operate cream separators at proper speed, 95 per cent. failed to do so. The combined losses of all cream separator users operating their machines at random would average \$104 per separator annually. The importance, therefore, of the new Sharples Suction-feed Tubular Cream Separator may readily be appreciated when it is said that this new machine eliminates every one of the undesirable weaknesses heretofore found in cream separators as a class. This new suction-feed separator skims just as clean at 35 turns per minute or at 55 as it does at the normal speed of 45 turns. The only difference that speed of operation makes is to increase the capacity of the separator. When time presses, the operator of a new Sharples can speed up the new Sharples to 55 or 60 turns and he immediately has a separator of one-third greater capacity than he paid for, and which will do the work in one-third less time. The new Sharples not only separates thoroughly, but it also produces cream of uniform density at every speed. These three features are of prime importance, both to the dairyman who keeps three cows and the one who keeps 300. 28 new features in all. The entire construction of this new Sharples machine has been extremely simplified. It is convenient and durable. The Tubular bowl is suspended by means of a flexible steel spindle from a single bearing. A hardened steel cone holds the weight of the bowl while it revolves on the balls. No parts slide. It is therefore almost

frictionless. Heat or cold cannot cause expansion or contraction. The bearing of the new Sharples is at top. The Tubular bowl hangs from this bearing naturally. The three-piece bowl is a light, steel tube, hollow throughout, and contains neither discs or other inside parts. It is therefore easy to clean and keep clean. In the new Sharples the bowl is driven by strong, simple, direct, self-oiling gears enclosed in a case to protect them from dust and grit. The gears run in a spray of oil constantly. There are no oil cups, oil holes or drip shelves on the Sharples. Gumming is impossible. The heavy, one-piece frame has neither shelves nor legs to work loose or snap off. The supply can is the largest used on any make of separator. It is pressed from a single sheet of steel, tinned to prevent rusting and so low that a 40-quart can can readily be emptied into it without lifting. In the hand separators the Tubular bowl makes 16,000 revolutions per minute. The best of the disc machines make as high as 8,000; none makes more. The reduced diameter of the Tubular makes possible a higher speed bowl, which in turn increases the centrifugal or skimming force. In the Tubular bowl the skimming is done by centrifugal force alone. There are no disc inside it. Where the skimming is done with the assistance of discs, the wear and tear from constant daily use reduce the skimming efficiency of the machine. Whereas the bearings of the Tubular bowl polish from use and run more freely. The double centrifugal force generated in the Tubular bowl skims out the last trace of butter fat. When cows have been long in lactation the globules of fat are smaller and consequently much greater force is necessary to bring about complete separation.

Suspended Bowl,
Bottom Feed,
Low-Down
Supply Can,
Easy Running,
No Discs.

Tubular Hand Separator

No. 1, capacity 175 lbs.
per hour. Price....\$40.00

No. 2, capacity 275 lbs.
per hour. Price....\$55.00

No. 3, capacity 350 lbs.
per hour. Price....\$65.00

These three sizes are
readily turned by one who
is seated. They stand only
2 ft. 9½ in. high; the sup-
ply can is still lower.

STAND UP SIZES.

No. 4, capacity 450 lbs.
per hour. Price....\$75.00

No. 6, capacity 650
lbs. per hour.

Price\$90.00

No. 9, capacity 900
lbs. per hour.

Price\$110.00

Pulley Power
Attachment,
\$2.50 Additional.

These three sizes
stand only 3 ft. 6
in. high; the supply
can is still lower.

THE RANDOLPH GOVERNOR PULLEY

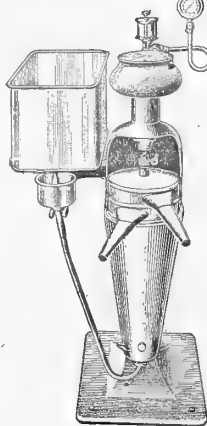
It absolutely governs the speed of the separator, releasing automatically when the proper speed is attained and absorbing all shocks from the gasoline engine. It runs in either direction without any change of adjustment. The pulley standard can be placed on the floor, side wall or overhead to suit the conditions. The construction of this pulley embodies the loose pulley feature, whereby the separator may be stopped without stopping the engine. Attention is called to the fact that after the proper speed has been attained by setting the jamb nuts on the hand wheel thread, the correct speed will be maintained without further action.

Price\$10.00

PRICES OF THE NEW SHARPLES TUBULAR HAND SEPARATOR

	Capacity.	Shipping Weight.	Price.
No. 2S	300 pounds.	220 pounds.	\$60.00
No. 3S	400 pounds.	220 pounds.	70.00
No. 4S	500 pounds.	300 pounds.	85.00
No. 6S	700 pounds.	300 pounds.	100.00
No. 9S	900 pounds.	300 pounds.	120.00
Power Pulley extra.....			2.50

STEAM TURBINE TUBULAR DAIRY SEPARATORS



Just a jet of steam, not much larger than would go through a straw, drives it to full speed.

An armload of wood or a bucket of coal will furnish the needed fuel for the smaller machines for an hour's run.

DRIVEN DIRECT FROM THE
BOILER. MADE IN THREE SIZES.

No.	Capacity.	Price.
5.	500 pounds per hour.....	\$80.00
7.	700 pounds per hour.....	100.00
10.	1,000 pounds per hour.....	125.00

For Separator Boiler, see page 117.

G. & T. CO.'S PERFECTION SEPARATOR OIL

This Oil is put up expressly for the use of separators, and we recommend it to users of all hand machines, it being a light oil and having a very low cold test.

1-quart can	\$0.30
½-gallon can .....	.50
1-gallon can .....	.75
5-gallon can	2.50

SHARPLES MILKER

IN the five years, during which Sharples Milkers have been at work in some of the best of the country's large and small dairies, they have attained a reputation for 98 per cent. satisfactory service. But, despite the fact that the Sharples Milker is now milking upwards of a quarter million cows, there are still a number of dairymen who are unacquainted with the merits of this wonderfully successful machine.

In a dairy where a two-unit Sharples Milker is installed, the saving of one man's salary can almost always be immediately effected, which, taken in the rough, averages \$25 per month, or \$300 per year. The additional savings in time and in board taken in conjunction with other profits accruing from the use of the Milker, should approximate half as much more, or \$450 in all.

When a Sharples Milker is installed, it is soon found that the same number of men are not needed to do the chores and odd jobs which fill in the gap between the morning and evening milking periods. Men otherwise unnecessary are sometimes kept on the payroll as milkers because the milking cannot be done without their help.

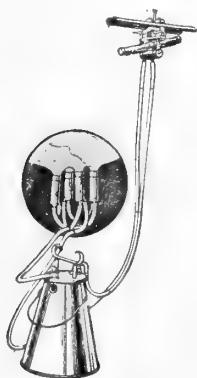
Using this two-unit Sharples Milker, one man can milk a twenty-cow herd in one hour. This feature of the Sharples Milker, namely, fast milking, which is made possible by the quick and entire relief of the "upward squeeze," has two big advantages. It gets the job done quickly and it tends to make the cow give more milk.

EXTRA UNITS.

It frequently occurs that after a two-unit outfit has been installed, that the user decides to add another unit. In doing this it is not necessary to make any changes. All that is necessary is to order another milking unit and go right ahead just the same as previously.

This unit comprises pail, pail lid, pulsator and teat cups.

Price, \$110.00



A COMPLETE TWO UNIT OUTFIT CONSISTING OF PUMP, AIR TANKS, TWO MILKING UNITS

INSTALLED COMPLETE IN YOUR BARN

\$288.00

This outfit complete includes Pump Air Tanks, Two Complete Milking Units, with all the necessary pipes and fixtures for a complete job. Installation by an expert, and expert's time for proper instruction after the milker is installed. For a barn taking not over 200 feet of piping.

F. O. B. West Chester, Pa.

TESTIMONIAL.

Gaithersburg, Md., Aug. 18, 1913.
Messrs. Griffith & Turner Co.,
Baltimore, Md.

Dear Sirs:—After using a four-unit Sharples Milking Machine for eight months, which has been in constant use in my dairy of fifty to sixty cows, I am glad to say it is giving perfect satisfaction. I will increase my cows in September to eighty. With the scarcity of labor to milk cows I would not do so without a milking machine. I have had two cows with udder trouble, but certainly do not blame the machine. In fact, I consider it much easier on cows than with many hand milkers. Anyone who wishes to see machine in operation will be welcome. Start milking every afternoon at three o'clock.

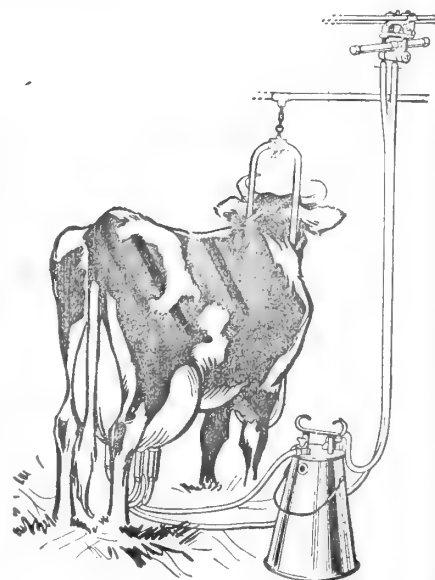
Very respectfully,

J. B. DIAMOND.

This outfit is still in operation and giving entire satisfaction.

The New five-inch single cylinder pumping equipment just gotten out places a Sharples Milker within the reach of everyone. Heretofore the Milker reached maximum efficiency in dairies of 15 or more cows. But the new pump makes it possible to achieve the same splendid results in dairies of 10 to 25 cows. It also makes a tremendous difference in the cost of an outfit, as you can now purchase a regular, standard, one-man machine of two units, big enough for a herd of 25 cows, yet cheap enough for a herd of 10 cows, installed ready for use at the total cost of \$238.

Installations are made under the superintendence of Sharples Mechanical Experts, who stay on the ground long enough to thoroughly instruct purchasers in the care and method of operating the machine.



The New Sanitary Cream Separator



Inside of bottom aluminized to prevent rusting.

1. Milk and water are not mixed.

2. You can draw pure, sweet, undiluted milk for household use any time without disturbing the cream. The skim-milk makes excellent feed for stock.

3. It is a most convenient and labor-saving apparatus for the farmer and dairyman. Saves all lifting, skimming and handling of crocks and pans.

4. Milk vessel is easily and quickly removable without unscrewing the faucet.

5. The faucet is large and short in the neck and drilled out smooth on the inside. Will draw off cream and milk rapidly without clogging.

No.	List Price.	Retail Price.
2½ With 2½ gal. tin milk vessel.....	\$5.00	\$4.00
4 With 4-gal. tin milk vessel.....	6.00	4.80
6 With 6-gal. tin milk vessel.....	7.00	5.60
8 With 8-gal. tin milk vessel.....	8.00	6.40

A very convenient style where larger milk capacity is required. It is made with ample space between the milk vessels to insert a cream can, butter box or cake of ice. It is identical with Style D, except that the cream can is not included.

No. 08—With two 4-gal. tin milk vessels. List price, \$11.00; Retail price, \$8.80

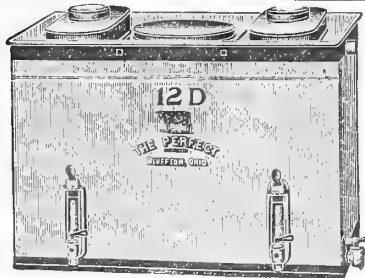
No. 12—With two 6-gal. tin milk vessels. List price, \$12.00; Retail price, \$9.60

No. 16—With two 8-gal. tin milk vessels. List price, \$13.50; Retail price, \$10.80



STYLE B.

This style merits special attention. It is essential to have a place for the cream as well as the milk, for the secret of good butter-making is in ripening the cream. With this or the preceding style arranged to connect direct with pump or secure running water. In this way you save nearly all the labor. The average shipping weight is 45 lbs.



STYLE D.

	List Price.	Retail Price.
08D—With two 4-gal. tin milk vessels and 4-gal. cream can.....	\$12.00	\$9.60
12D—With two 6-gal. tin milk vessels and 4-gal. cream can.....	13.00	10.40
16D—With two 8-gal. tin milk vessels and 4-gal. cream can.....	14.50	11.60

THE "D O T Y" VENTILATING AND AERATING CREAM SEPARATOR

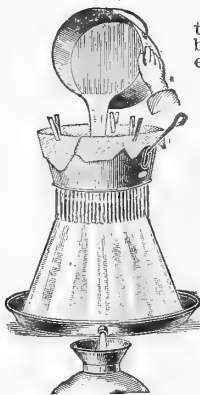
For the benefit of persons who do not object to mixing water and milk for the purpose of facilitating the separation of cream, we offer the Doty Single-Compartment Separator.

Has reversible cover and anti-whirl-pool bottom and approved method of aerating the milk.

No.	Height.	Cap'y Gals.	Cows	List Price.	Retail Price.
0	20 in.	6	1 to 2	\$4.00	\$3.25
1	25 in.	10	2 to 3	5.00	4.00
2	27 in.	15	3 to 4	6.00	4.80
3	27 in.	22	4 to 7	7.00	5.60
4	27 in.	29	7 to 10	8.00	6.40



Champion Automatic Milk Cooler-Aerator

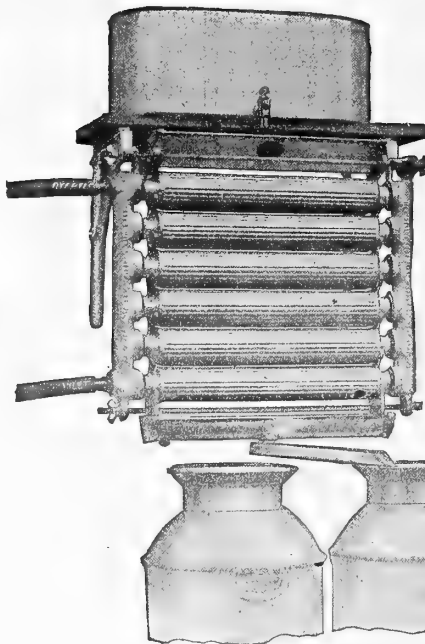


To operate—Set as low as possible where there is plenty of pure, fresh air; if the wind blows, the better. It can be used in the strongest wind without a drop being blown away. Use very cold water. Use a cloth or metal strainer over the top of milk receiver.

No.	Capacity of Milk Receiver.	Size of Dairy.	Factory List Price.	Our Special Price.
2.....	18 quarts	10 to 25 cows	\$7.00	\$5.00
3.....	34 quarts	25 to 50 cows	8.00	5.75
4.....	52 quarts	50 to 100 cows	10.00	7.00

Extra sizes on special orders. Prices include double cheesecloth strainer and spring pins.

ROOT SANITARY COOLER



Corrugated cylinders retard the flow and cause a more thorough cooling. These corrugations are just sufficient to retard the flow and make cleaning easy. Sediment on the inside of cylinders that in ordinary coolers reduce the efficiency, can be removed, as cylinders can be taken out and scrubbed as often as necessary to keep them clean.

The cylinders are made of special drawn copper tubing, heavily tinned, fitted with strong brass ends, the supporting racks also water columns and hangers, are made of the best grey iron castings, covered with a thick coat of galvanizing. All parts with which the milk comes in contact are copper heavily tinned.

All coolers are shipped complete with

wall brackets unless ordered otherwise.

No.	Capacity Per Hour, Gals.	Capacity of Res., Qts.	No. of Cylinder.	Price.
0	20	18	4	\$14.00
1	35	26	6	18.00
2	50	32	6	24.00
3	65	42	6	30.00
3½	85	42	8	45.00
4	120	70	8	70.00
Portable Stand, extra.....				5.00

ASEPTIC MILKING TUBES

For Cows with Sore Teats.

Insert one in the teat and the milk will flow.

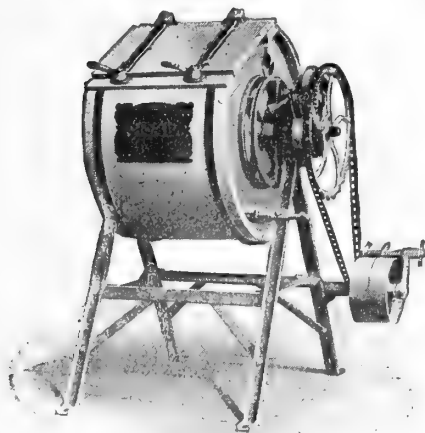


Plain Tube, .25



Self Retaining Tube, .25

MINNETONNA HOME CREAMERY



CHURNS
THE BUTTER
AND
WORKS IT.

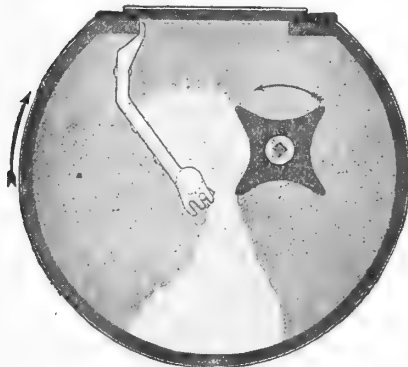
The Minnetonna process of churning is the most efficient method of agitating the cream during churning yet discovered. It works on the same principle that is used in some of the most modern and approved big creamery churns.

Style No. 3 hand-power plant; churning capacity, 12 to 15 gallons; working capacity, up to 25 pounds butter.

The style No. 3 is a very good size for dairy farmers wanting to make butter once or twice a week by hand, and having from five to fifteen cows.

No. 3-A Minnetonna Home Creamery; hand and power. Churning capacity, with barrel half full, 12 gallons. Working capacity, 3 to 20 pounds. Can be belted to your gasoline engine. Pulley, 8 x 2 1/4 inches. Speed, 200 R. P. M. Floor space required, 2 ft., 8 in. x 2 ft., 7 in. Shipping weight, 210 pounds.

It Works the Butter Properly and Quickly.

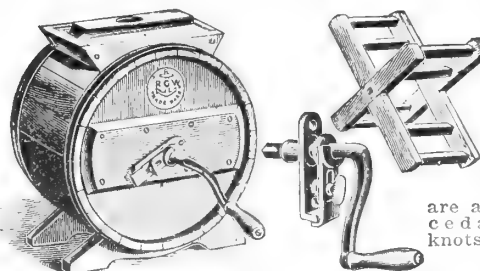


Cross section view of Minnetonna Home Creamery, showing how the butter is worked between two rolls.

Here is another feature wherein the Minnetonna is away ahead of the old-fashioned farm churn. The working is done in the barrel after the churning and washing are finished. The butterfat particles are all gathered together and thoroughly worked between the main roll in the center of the barrel and the small idle roll at the end of the basket. The main roll revolves when the working gear is thrown into place. The whole job is done with a few revolutions of the barrel.

	Factory Number	Churning Capacity With Drum Half Full	Butter Working Capacity	Shipping Weight	Style	Price without Ripening Coil	Price Complete
Minnetonna Home Creamery	No. 3 A	12 Gallons	3 to 20 lbs	195 lbs.	Hand Operated	\$27.75	\$32.25
	No. 3 A	12 Gallons	3 to 20 lbs	210 lbs.	Hand and Power	\$33.75	\$38.25
	No. 2 C	20 Gallons	5 to 40 lbs	250 lbs.	Hand and Power	\$39.75	\$45.00

CEDAR CYLINDER CHURN

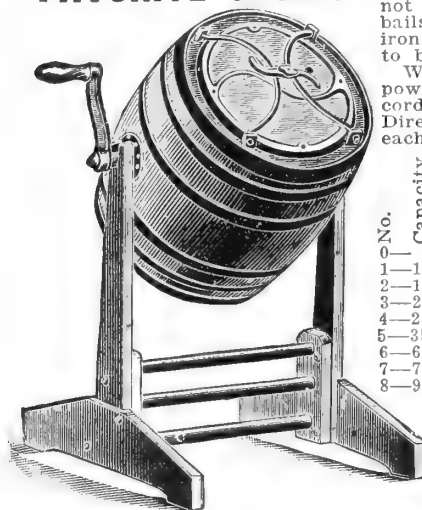


There are a number of Cylinder Churns on the market sold at a lower price, but they are made of pine or other inferior wood, while these are all of selected cedar, free of knots.

No. 1—2 1/2 gallons....\$2.50
No. 2—4 gallons.... 3.00

No. 3—7 gallons....\$3.50
No. 4—10 1/2 gallons.... 4.00

BALTIMORE FAVORITE CHURN



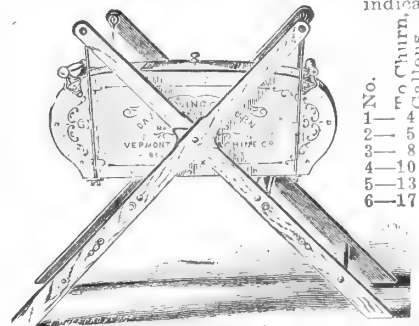
It is made of thoroughly seasoned material. It is finished smooth inside as well as outside. The iron ring head is strong and not liable to break. The bails are fastened to the iron ring, where they need to be fastened.

We furnish pulleys for power. Prices extra, according to size desired. Directions for using in each Churn.

No.	Capacity, Gallons.	To Churn, Gallons.	List Price.	Retail Price.
0—6	6	5	\$8.00	\$5.00
1—10	10	7	9.00	5.50
2—15	15	10	10.00	6.00
3—20	20	12	11.00	6.75
4—25	25	14	12.00	8.50
5—35	35	17	16.00	10.00
6—60	60	30	26.00	16.00
7—75	75	37	30.00	18.50
8—90	90	45	35.00	21.00

10-inch Single Pulleys for above. List, \$3.25. Retail, \$2.00.

DAVIS SWING CHURN



The round ends of the Churn cause the cream as it strikes against them to slide up and over, turning a complete somersault. Each Churn has a glass indicator in the cover.

No.	To Churn, Gallons.	Capacity, Gallons.	Weight, Pounds.	Price.
1—4	4	8	55	\$8.00
2—5	5	10	65	9.00
3—8	8	16	75	10.00
4—10	10	20	85	12.00
5—13	13	26	98	15.00
6—17	17	34	112	18.00

Additional for Pulley, 12x3, with attachments, \$4.00.
Additional for Tight and Loose Pulley, 12x3, with attachments, \$5.50.

THE STURGES STEEL CHURN

Sanitary—Easy to Clean.

They are steel (not a piece of wood about them). The Churns are mounted upon a strong welded steel base, so that with ordinary care they will last a lifetime. Being steel, they will not absorb moisture, so cannot become soaked. The inside is all smoothly and heavily tinned, so they can be easily cleaned, and there is no place for microbes to lodge. No seams to open up nor hoops to drop off in the sun.

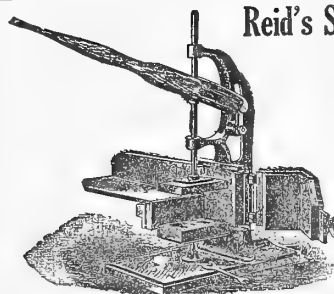


No. 1—5-gal. Churns, 1 1/2 to 2 1/2 gal.....\$5.00 each.
No. 2—7-gal. Churns, 1 to 3 1/2 gal..... 5.75 each.
No. 3—10-gal. Churns, 1 to 5 gal..... 6.50 each.

Reid's Self-Gauging Butter Printer

Prints butter very neatly and quickly. Weighs into pounds or half pounds as desired. Does it in one-quarter the time it can be done by hand, making prints of uniform weight. Moulds are square.

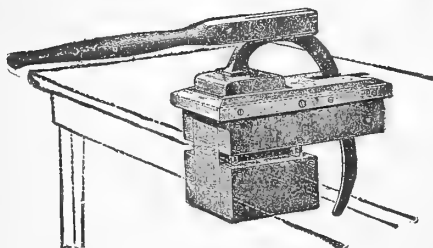
Either pound or half pound \$10.00
Both pound and half pound combined.. 13.50
Extra for initials and monograms... 1.50



LAFAYETTE BUTTER PRINTER

This is also self-gauging. Intended for use in creameries, but more especially for re-printing. Very simple and handy.

Either pound or half pound, with table, \$15.00.
Either pound or half pound, without table, \$10.00.
Extra for initial or monogram \$1.50



Round and Square Butter Moulds



Fig. 2.



Fig. 3.

Fig. 2—R. & B., ½ pound, round... \$.25
Fig. 2—R. & B., 1 pound, round... .30
Fig. 3—R. & B., ½ pound, square... .30
Fig. 3—R. & B., 1 pound, square... .35

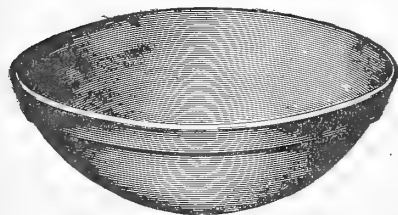
Round prints, ½ pound..... \$.10
Round prints, ¼ pound..... .10

INDIVIDUAL BUTTERS

Square, ½ ounce..... \$.15
Square, 1 ounce..... .15
Round, 1 ounce..... .10



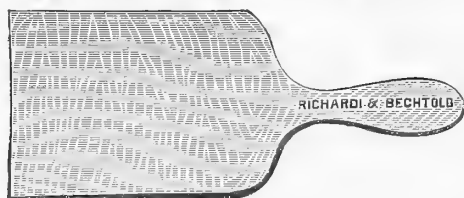
POLISHED MAPLE BOWLS



Made from Hard Maple turned from a solid block. Every Bowl is first quality, smoothly finished and polished.

Bowls, 15 inches. 35c.
Bowls, 17 inches. 55c.
Bowls, 19 inches. 75c.

LADLES AND SPADES

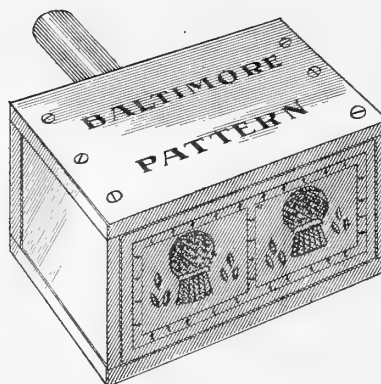


4x12 Butter Spade.....10c.

No. 1 Butter Ladle.....15c.

Baltimore Pattern Home-made Butter Print

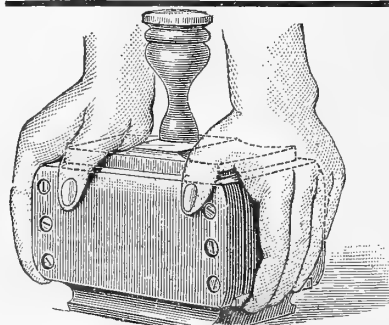
This Butter Print is hand-made out of solid hardwood, and is put together with brass screws, making it indestructible. Being a two-piece print makes it very handy to use. ½ lb. Sheaf of Wheat Print, \$1.00; 1 lb. Sheaf of Wheat Prints, \$1.50. ½ lb. Special Print, Carved with Initial, \$2.00; 1 lb. Special Print, Carved with Initial, \$2.50.



EXTRA HEAVY BRICK BUTTER MOULD

Philadelphia Pattern, ½ pound.. \$1.00
Philadelphia Pattern, 1 pound.. 1.50

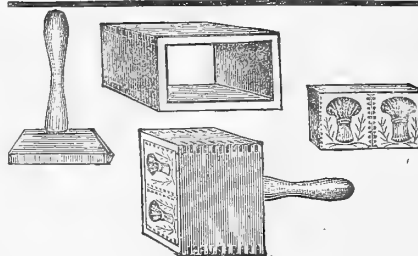
Can furnish moulds to order with initials cut at an extra cost of \$1.00.



Butter Mould

SEELEY
PATTERN.

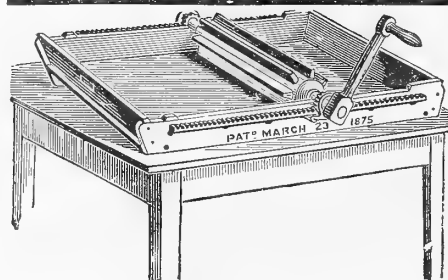
Furnished with sheaf of wheat. Movable block.
½ pound..... 60c.
1 pound..... 75c.



SPECIAL CARVED DESIGNS

The prices given below are for special carved blocks, pound or half pound, for any of the above printers.

Plain Block, no carving..... \$.25
Plain Sheaf Blocks, chain border..... .75
Initial on block, up to five letters..... 1.50
Blocks with more than five letters, \$1.50, with an additional charge of 10 cents for each letter over five.
For Lafayette Printers, add price of plate..... .25



Reid's Butter Worker

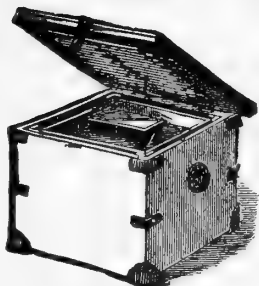
Inside No. Measurement.	Capacity, Pounds.	Weight, Pounds.	List Price.	Retail Price.
4—14x24x2½ in.	10	20	\$6.00	\$4.80
3—17x27x2½ in.	20	25	7.00	5.60
2—20x36x2½ in.	30	29	8.00	6.40
1—23x36x2½ in.	50	45	10.00	8.00

Larger size, especially designed for mixing, reworking and coloring, or creamery use.

Inside No. Measurement.	Capacity, Pounds.	Weight, Pounds.	List Price.	Retail Price.
0—23x37x3 in.	75	60	\$12.00	\$9.40
00—23x56x3 in.	112	80	15.00	11.25
000—23x72x3 in.	150	100	18.00	13.50

When desired, we can send legs along with any size machine for \$4.00 extra, which can be set up after arrival at destination.

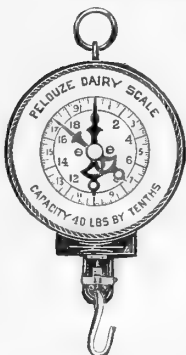
BUTTER BOXES



These boxes are iron bound at the edges and capped at the corners. An ice box is fitted in the center, which can be removed at will and the space utilized.

Capacity.	Price.
36 1/2-pound prints.....	\$4.50
64 1/2-pound prints.....	5.25
80 1/2-pound prints.....	5.50
100 1/2-pound prints.....	6.00
120 1/2-pound prints.....	6.50
140 1/2-pound prints.....	7.00
20 lb. prints. \$3.75	56 lb. prints. \$5.00
30 lb. prints. 4.25	80 lb. prints. 5.50
1 lb. prints. 4.75	96 lb. prints. 6.00
120 lb. prints.....	\$6.50

"PELOUZE" DAIRY SCALE



Graduated by Tenths of a Pound.

GUARANTEED ACCURATE.

Made to comply with Departments of Weights and Measures. Large Circular Brass Dial, with distinct, black figures and graduations.

Two indicator hands—one red, to be set at the weight of empty pail.

Very attractive and durable.

"PELOUZE" DAIRY SCALE.

No. D 40—Capacity 40 lbs.....	\$2.75
No. D 60—Capacity 60 lbs.....	3.00

MILK STRAINER



These milk strainers are made of extra heavy tin and brass wire cloth. They are warranted not to rust. Made in two sizes—4-quart and 10-quart.

Prices.
4-quart \$.75
10-quart 1.50

WATERPROOF APRON



These Kitchen Aprons are the best that can be had. They are absolutely water- and grease-proof. Extensively used by liverymen, butchers, druggists, chemists, brewery-men and ice-men. Also used by housewives when doing ordinary work in the kitchen.

Size, 36x48 inches.

No. 87—Brown Water-proof Duck.	\$1.50
No. 88—White Duck.....	1.50

MILK BOTTLES



These bottles are made by a factory devoted especially to bottle making. The glass is clear flint. This makes a bottle that the milk shows up to the best advantage. They are made to stand the rough usage of the street delivery and collection on routes, and washing and sterilizing in the dairy house. These bottles are made with a long neck, and will show a deep cream line. Prices named are for bottles F. O. B. Baltimore.

If you desire name plates, same can be put on any order of five gross or more of one size, at an additional cost of \$1.50 for each name plate. Each size bottle will require a different plate. On second orders, there will not be any extra charge for lettering.

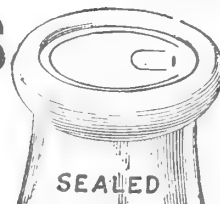
	Quart.	Pint.	1/2 Pint.	1/4 Pint.
One dozen.....	\$.65	\$.50	\$.45	\$.40
One gross.....	6.50	4.50	4.25	4.15
Two gross and over.....	6.00	4.25	4.00	3.90
Five gross and over.....	5.75	4.00	3.85	3.75
Fifteen gross and over.....	5.40	3.75	3.60	3.50

WRITE FOR CARLOAD PRICES.

MILK BOTTLE CAPS



OPENED



SEALED

The great convenience of this cap will be appreciated, as it is made with a lift to take the cap out. This prevents spilling the milk, or having to use anything to pry it out.

These caps are made from 40-point thick board, and are thoroughly waterproofed with paraffine.

One thousand	\$.30
Five thousand	1.25
Twenty-five thousand	6.25

LARGER QUANTITIES, PRICE ON APPLICATION.

PARCHMENT BUTTER PAPER

It can be used in all cases where wax paper, tin foil or muslin has been adopted, and in many cases where these cannot, for preserving goods from the effects of moisture, etc. In sheets 24x36, or can furnish the paper cut in the following sizes without extra charge: 6x9 for half pounds, 9x12 for one pounds, and 10x15 for two pounds. Price, 20c. per pound; by mail, 26c.; 6 pounds, \$1.00.

DAIRY SALT

14-pound sacks	\$.25
28-pound sacks .....	.40
56-pound sacks .....	.60
200-pound sacks	2.00



BALTIMORE PATTERN MILK CANS

The Baltimore Pattern.

This cut illustrates it. It is the standard Baltimore Pattern Milk Can.

Smooth inside surface, without crevices or protruding rivet heads, which enables cans to be easily, quickly and thoroughly cleaned.

THE BALTIMORE PATTERN.

20-quart	\$2.50
30-quart	2.75
40-quart	3.25

Special Prices in Quantities.

Our charge for marking name on can will be 25 cents each.

Can furnish cheaper cans.

Prices on application.

IOWA PATTERN MILK CANS

IOWA PATTERN HEAVY MILK CAN.

20-quart	\$2.00
32-quart	2.25
40-quart	2.50

Special Prices in Quantities.

Our charge for marking name on can will be 25 cents each.

Can furnish cheaper cans.

Prices on application.

NEW YORK PATTERN MILK CANS



Furnished with our new Umbrella Cover, with seamless rim welded to top. The malleable iron handle is so curved that it does not strike the body of the can, and is practically noiseless.

20-quart	\$2.50
40-quart	3.25

Special Prices in Quantities.

Our charge for marking name on can will be 25 cents each.

Can furnish cheaper cans.

Prices on application.

DOUBLE BOTTOM CEMENT PAIL

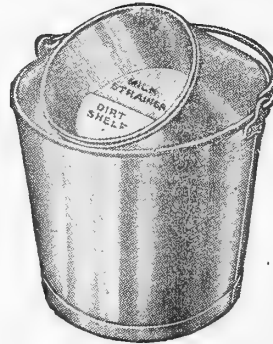
Heavy reinforced Galvanized Cement Pail.....90c.

WOODEN STABLE BUCKET

J. I. C. Cedar—Heavy iron-bound stable bucket. Each, 60c.



STERILAC SANITARY MILK PAIL



This Pail has the endorsement of the most progressive dairymen of the country, as well as Health Board officials and physicians. There is absolutely no other way at so small a cost to effectively prevent complaints of retail customers, creameries or milk depots, or to obtain their confidence.

Note the strainer cloth on which the milk strikes.

Note the dirt shelf which catches the dirt falling from the udder. The projecting top shields the strainer cloth from falling dirt.

It is easy to use, because the opening is of ample width.

It does not spatter.

Our Special Price, \$2.50.



Sanitary Fish Mouth Dairy Pail

Approved and recommended by State Dairy Inspectors. Used exclusively by many large and practical Dairymen. Made from finest charcoal plate. One piece retinned top or hood. Steel Bail. Reinforced Ears. All seams sanitary soldered inside and out.

IXX. HEAVY CHARCOAL PLATE.

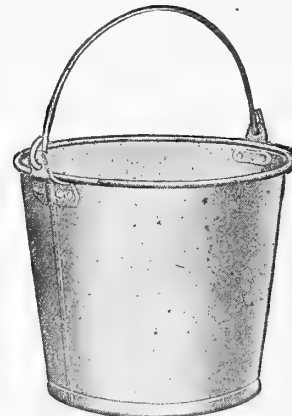
14-quart	\$1.25
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Dairy Strainer Pail

Coppered Pail. Natural finish bail wood. Reinforced ears. Handle near bottom to use when pouring from pail.

IXX. CHARCOAL PLATE.

14-quart	\$.90
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Milk Pail

BEST IXX BLOCK TIN.

12-quart	55c.
14-quart	60c.

HEAVY GALV. PAIL.

12-quart	50c.
14-quart	55c.

Milk Cans

Finest charcoal plate. Seamless cover and neck. Bottom reinforced with steel band. Heavy steel bail. Sanitary soldered. Full capacity.

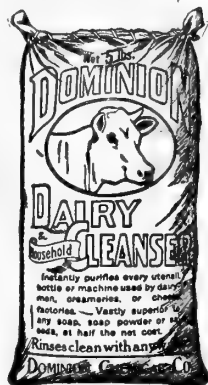
4-quart	\$.75
8-quart	1.00
10-quart	1.25



FLOATING GLASS DAIRY THERMOMETERS



8-inch. Price, **25c.** each.
 10 inch. Dairy Thermometer, stands boiling water. Price, **50c.** each.
 Milk Hydrometer, No. 2080, **40c**
 Milk Hydrometer, No. 2085 (Quevenne), **75c.**
 Add 8 cents each if by mail.



DOMINION DAIRY AND HOUSEHOLD CLEANSER

An improved cleanser and purifier for all dairy and household purposes. Just the thing for Churns, Pails and anything used in dairies. For household use, laundry work, all kitchen use, house-cleaning, public buildings, hotels and factories.

Dissolves with greatest ease in either hot or cold water, and rinses off perfectly clean without leaving a soapy scum. **Price:** 5-lb. bag, **25c.**; 25-lb. bag, **\$1.10.**



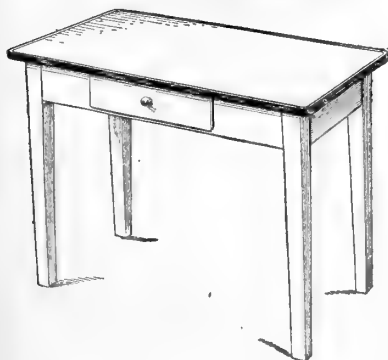
WELLS, RICHARDSON AND Co.'s BUTTER COLORING

Will not color the buttermilk; will never turn rancid; gives the brightest and best color; butter never becomes reddish; perfect economy in use. It is cheaper than any other coloring.

Dandelion Brand Butter Coloring is guaranteed to be purely vegetable, and that the use of same for coloring butter is permitted under all Food Laws—State and National.

Put up in four sizes.
 Small size to color 500 lbs. **\$0.25**
 Medium size to color 1,250 lbs. **.50**
 Large size to color 2,800 lbs. **1.00**
 Gallon cans **2.75**

GENUINE SANITARY WHITE PORCELAIN ENAMELED TOP TABLES



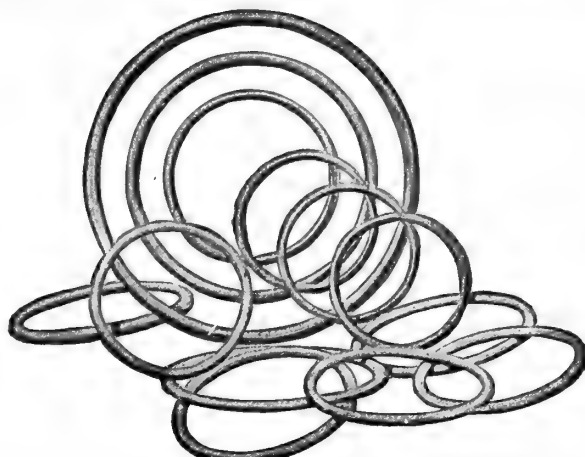
AT PRICES NEVER BEFORE OFFERED

The Porcelain Enameled Tops are made on heavy gauge iron. The enamel is fused in 1800° of heat, giving a surface that is absolutely sanitary.

The tables are made of well-seasoned, clean stock, finished in white.

No.	Top Size.	Price.
21	22-in.x34-in.,	\$5.50
22	22-in.x40-in.,	7.50
23	28-in.x40-in.,	8.00
24	28-in.x46-in.,	9.50
25	34-in.x46-in.,	11.00

SEPARATOR BOWL RUBBERS

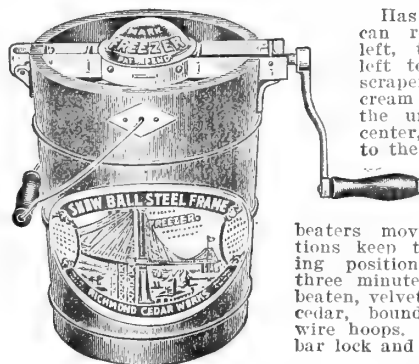


Separator Bowl Rubbers for the leading makes of Separators. Dealers send us your specifications and we will make you a special price according to the quantity wanted.

Bowl Rubbers, for all size Sharples Hand Machines, each **10c.**; per dozen, **\$1.00.**

Feed Tube Rubbers, for all size Sharples Hand Machines, each **10c.**; per dozen, **\$1.00.**

"SNOW-BALL" FREEZER

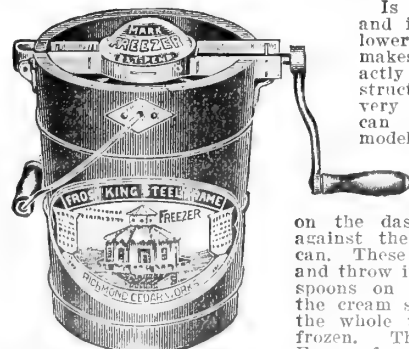


Has three motions. The can revolves from right to left, the outer beater from left to right, the two wood scrapers removing the frozen cream from the sides with the unfrozen cream in the center, and throws all back to the side to be again frozen and removed by the scrapers. The continuous action of the can and two

beaters moving in opposite directions keep the cream ever changing position, producing in about three minutes a very smooth, well-beaten, velvety cream. Virginia white cedar, bound with electric welded wire hoops. Fitted with new cross bar lock and reinforced cross bar.

List.	List.	Retail.	Retail.
1 qt. \$1.80	4 qt. \$3.15	1 qt. \$1.50	4 qt. \$2.75
2 qt. 2.25	6 qt. 4.00	2 qt. 2.00	6 qt. 3.50
3 qt. 2.70	8 qt. 5.10	3 qt. 2.30	8 qt. 4.50

The "FROST KING" Steel Frame Freezer Single-Motion



Is a single-motion freezer, and is accordingly sold at a lower price than our other makes. It is, however, of exactly the same high-grade construction. The mechanism is very easy to operate, and the can being of the narrow-model type makes the freezing very rapid. The operation of this freezer is extremely simple. The wood scrapers

on the dasher press automatically against the sides of the revolving can. These remove the frozen cream and throw it to the centre where the spoons on the beater mix it with the cream still unfrozen and return the whole to the sides to be re-frozen. The "Frost King" Steel Frame freezer will produce a rich and evenly frozen ice-cream in about three minutes.

Sizes	1-qt.	2-qt.	3-qt.	4-qt.	6-qt.	8-qt.
List Prices	\$1.60	\$1.85	\$2.15	\$2.55	\$3.25	\$4.20
Retail Prices	1.25	1.60	2.00	2.40	2.90	3.50

MILK TESTERS AND GLASSWARE

WAGNER PRECISION BABCOCK GLASSWARE

For testing milk and its products, in accordance with specifications formulated by the Bureau of Standards, Washington, D. C. and adopted by the Official Dairy Instructors' Association. The markings are unusually exact, the lines being sharp and uniform. All the markings are permanent being filled with a red enamel which will not wash out.

P1000	10% Milk Test Bottles.....	Each	\$0.15	Doz.	\$1.50
P1005	30% Cream Test Bottles.....	Each	.20	Doz.	2.00
P1011	50% Cream Test Bottles.....	Each	.25	Doz.	2.50
1014	1-100% Skim Milk Test Bottles...	Each	.60	Doz.	6.50
1026	Acid Measures	Each	.10	Doz.	1.00
1019	17.6 c. c. Milk Pipette.....	Each	.20	Doz.	1.75
1023	9 c. c. Cream Pipette.....	Each	.20	Doz.	1.75

The Babcock Tester

No. 4-2 Bottle size for milk only.....\$4.25

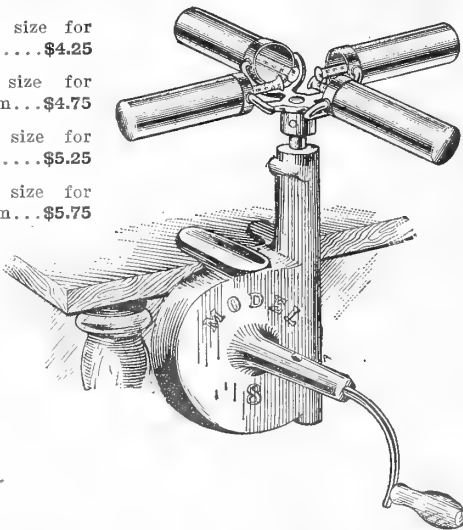
No. 5-2 Bottle size for milk and cream...\$4.75

No. 6-4 Bottle size for milk only.....\$5.25

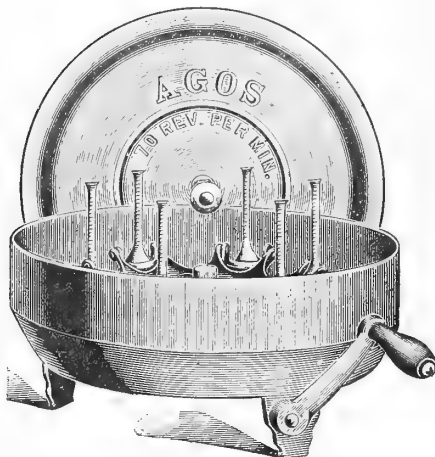
No. 7-4 Bottle size for milk and cream...\$5.75

Shipping weight about 17 pounds.

All Testers are equipped with full set of glassware for testing milk or milk and cream; also furnished with brush and bottle of acid.



THE "AGOS" BABCOCK MILK TESTER Cast-Iron Frame

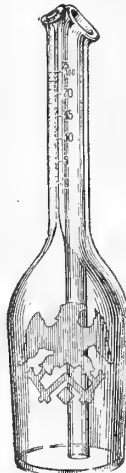


The "Agos" Tester uses the ordinary Babcock bottle, the "B. & W." or the "Ohlson" patent. With each Tester is furnished the following outfit: Full set of regular Babcock milk bottles, pipette, acid measure, acid sufficient for making 50 to 100 tests, and directions for manipulating. They are made in five sizes, as follows:

4 Bottles....	\$8.00
6 Bottles....	9.00
8 Bottles....	10.00
10 Bottles....	12.00
12 Bottles....	14.00



Acid Measure



Skim Milk Bottle



10% Milk Bottle



30% Cream Bottle

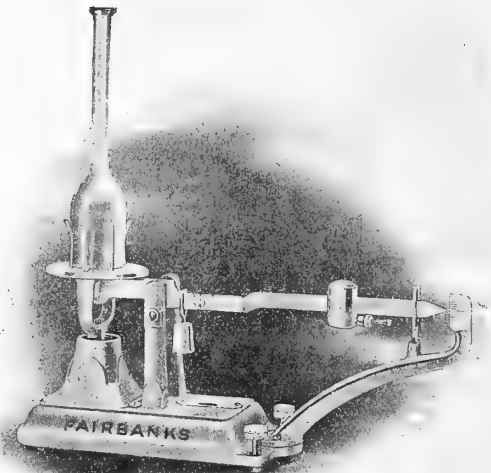


50% Cream Bottle



Pipette

No. 10612 Fairbanks Single Bottle Cream Test Scale

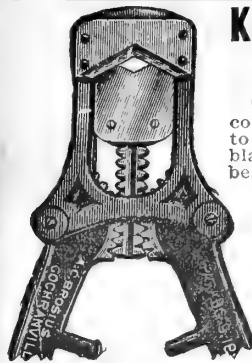


No. 10612 Cream Test Scale, Capacity 18 grams, Pan 2 1/2 inches diameter, fitted with Agate Bearings for permanent accuracy. Bottle is balanced by sliding poise with balance nut and the cream by hanging poise placed on notched graduations to allow 3, 4 1/2, 9 and 18 grams for weight of sample. Balance is easily given by pointed beam and indicator plate with five graduations on each side. Scale fitted with leveling screws and two levels. Finish—Nickle-plated and Aluminum paint. Price \$14.00.

Sensitive and accurate to 1/2 gram (one drop of cream or less).

Sulphuric Acid for Testing

9 Pound Bottles.....\$1.25
Larger quantities, price on application.

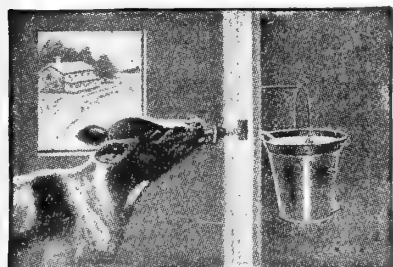


KEYSTONE DEHORNING CLIPPER

The practice of dehorning cattle is coming more into vogue. It is a mercy to the animals. Prevents goring. The blades on the Keystone are made of best steel. No twisting motion or second cut on horn. Parts are all interchangeable, and can be replaced. It is approved by veterinary surgeons and leading dairymen. The horns must go, and they cannot go too soon.

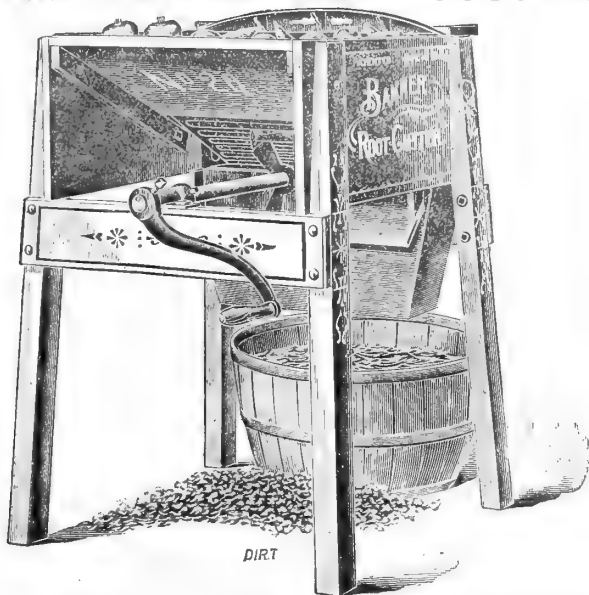
Clipper with leader and rope, extra blades and screw, fully warranted. List Price, \$15.20. Our Special Price, \$12.00. Clipper alone, List Price, \$16.00. Our Special Price, \$10.00. .

KEYSTONE CALF FEEDER



A simple device, based on natural laws, for feeding calves without teaching them to drink. The food is sucked through a rubber nipple and is mixed with the saliva and the digestive juices in a natural way. This feeder will prevent scours. It will make the calves fat and healthy. Used by more than 30 agricultural colleges. Price, \$1.50.

THE BANNER ROOT CUTTER



Simple in construction. Easy to operate. Has a self-feeder. Separates dirt from cut feed. Cuts with a clean cut. Does not crush, grind or tear the feed.

THE No. 20—FOR HAND USE.

Has a capacity of 30 to 50 bushels per hour. Weight, 120 lbs. Retail Price, \$9.50. Special Discount for Cash.

No. 25—FOR HAND OR POWER.

This is a new style machine. It can be used by hand or light power. Is very strong and durable. Capacity, 30 to 60 bushels per hour. Weight, 100 lbs.

Price, with crank.....\$10.00

Price, with pulley and crank..... 12.00

THE No. 16—SMALL POWER CUTTER.

With Fly Wheel and Band Wheel.

Supplied with crank also for hand use. Capacity by hand, 30 to 50 bushels per hour. Weight, 150 lbs. Capacity by power, 2 to 3 bushels per minute. Our retail price, \$15.50.

Special Discount for Cash.



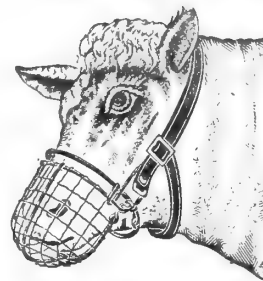
RICE'S CALF WEANERS

Also Prevents Cows from Sucking Themselves.

No. 1, for Calves, Retail price, 25c. List price, per doz...\$3.50

No. 2, for Heifers, Retail price, 40c. List price, per dozen6.00

No. 3, for Cows, Retail price, 60c. List price, per dozen. 8.50



SHAW'S CALF WEANERS

The Shaw's Calf Weaner is thoroughly practical. The action is entirely in the basket, it being hinged to the end of the nose piece. The basket is made of heavy galvanized wire, with extra bars running through. The halter that goes over the neck is made of solid leather, and can be adjusted to suit the calf's head.

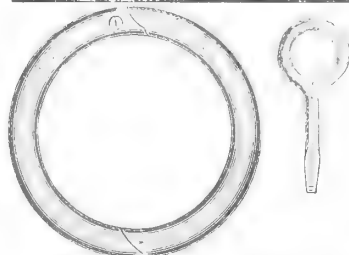
Prices: No. 1, 25c.; No. 2, 35c.; No. 3, 50c.



OX BALLS

TO BE USED ON COWS' AND STEERS' HORNS TO PREVENT DANGER.

PRICE PER PAIR.....25c.

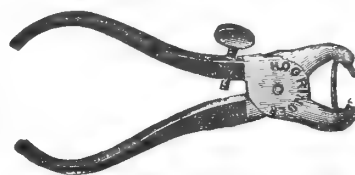


BULL RINGS

2½-in. Copper Rings...35c.

3 -in. Copper Rings...40c.

HEAVY BULL RING...\$1.25



HILL'S HOG RINGER

PRICE 15c.

HOG SNOOT CUTTER.

PRICE\$1.00.



HOG RINGS

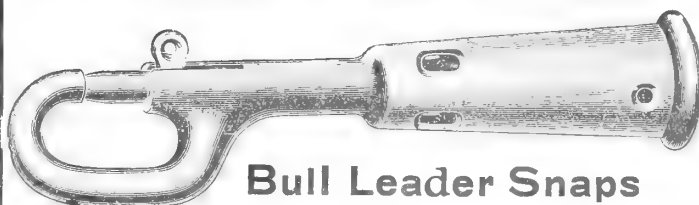
10010c.

SHOAT RINGS,

10010c.

PIG RINGS,

10010c.



Bull Leader Snaps

These snaps are made to attach to a pole, and with each one there is furnished a chain and screweyes to attach to pole, for releasing the snap. Price, without pole.....50c.

SEPARATOR, DAIRY AND SCRUB BRUSHES

HAND BOTTLE BRUSHES



No. 86—Prepared Stiff Bristle; brush part, 2¾ inches diameter, 6 inches long; hickory handle, ½-inch in diameter, 9 in long. Dozen, \$3.50; each, 35c.

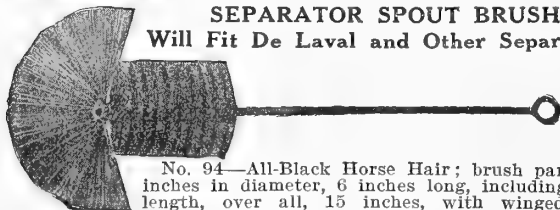
MACHINE BOTTLE BRUSHES



No. 81—Extra Stiff Grey Hair; brush part, 3 inches in diameter, 5½ inches long; hickory handle, ¾-inch in diameter, 3½ inches long, tapering to ½-inch in diameter at the end. Dozen, \$3.25; each, 35c.

SEPARATOR SPOUT BRUSH

Will Fit De Laval and Other Separators



No. 94—All-Black Horse Hair; brush part, 2½ inches in diameter, 6 inches long, including tuft; length, over all, 15 inches, with winged tuft. Each25c.

SEPARATOR BOWL BRUSHES

Will Fit De Laval, United States and Other Separators



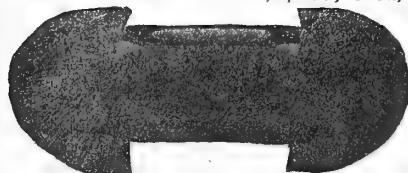
No. 47—Black Tampico; brush part, 3¼ inches in diameter, 5½ inches long; length over all, 13¾ inches. Each, 35c.

MILK CAN BRUSHES

Made of an excellent grade of durable fibre, very full, with solid backs. Unquestionably the best and most serviceable Milk Can Brushes on the market.



No. 416—Stiff Palmetto; brush part, 4x5 inches. Dozen, \$2.50; each, 25c.



No. 08—Stiff Palmetto Fibre; length on face, 9 inches; width on face, 5 inches. Dozen, \$2.70; each, 20c.

FACTORY, WAREHOUSE AND RAILROAD BROOMS

These Brooms are made with heavy steel bands or heads, securely nailed together. By this method of construction it is impossible for the brooms to work loose on the handles. They will last longer and give better service than the ordinary corn broom.



No. 223—Japanese Fibre; length of broom part, 14 inches...\$0.50
No. 221—Japanese Fibre; length of broom part, 16 inches... .60
All-Corn Heavy Warehouse Broom..... .50

SHARPLES SEPARATOR BOWL BRUSHES



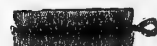
No. 1—Bowl Brush.....\$0.25
No. 2—Bowl Brush..... .25
No. 3—Bowl Brush..... .25
No. 4—Bowl Brush..... .25
No. 6—Bowl Brush..... .25

SPOUT BRUSH FOR SHARPLES AND OTHER SEPARATORS



Spout Brushes25c.

FEED TUBE CLEANER BRUSHES FOR SHARPLES SEPARATORS



Feed Tube Cleaner Brush.....10c.

TEST BOTTLE BRUSHES



No. 107—For Babcock Bottles; white bristles in body and tuft, 1½ inches in diameter, 2¾ inches long; soft white hair in neck, ¾-inch in diameter, 3 inches long; length, over all, 13¾ inches. Each,20c.



No. 106—Black China Bristle; brush part, ¾-inch in diameter, 2 inches long; length, over all, 6¼ inches. Each.....10c.

FLOOR SCRUBBING BRUSHES Extra Heavy



No. 368—Genuine Palmetto Fibre, 7 rows; length of stock, 1½ inches. Each.....75c.

STABLE OR PUSH BROOMS



These brooms are of the highest quality. Made with heavy blocks, and the fibre fastened in so it can not come out.

No. 0286—Genuine African Bass, 4 rows.....\$0.75
Genuine Bassine Broom; fibre put in with a patent strip75
Genuine Japanese Fibre Broom; fibre put in with patent strip60

WHITE MOUNTAIN REFRIGERATORS



**Solid Stone-Quarried—
Snow White Artistic
Rounding Corners.**

The real extreme of beauty, of compactness—our Solid Oak "Stone White" case now brought out in gracefully rounding corners—that is, the front blends right into the side, or rolls right up to the cover in a full, easy curve, eliminating all mouldings and adding a tone of solidity and general beauty to the already strikingly handsome "Stone White." You must see the "Rounding Corner" as we make it to appreciate the statements above. Solid Bronze turn-buckle or lift and massive "stop" hinges. Every interior part removable.

No.	Lbs. Ice.	Length.	Depth.	Height.	List Price.	Special Price.
902	50	25 in.	19 in.	43 in.	\$57.50	\$29.25
903	75	28 in.	21 in.	45 in.	64.00	32.50
904	100	31 in.	22 in.	47 in.	71.00	36.00

If with cooler, add to list \$9.50. Special price, \$5.25.



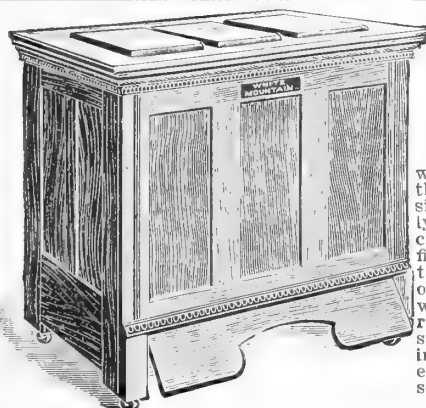
"New Hampshire" Pine

This Refrigerator Preserves Food as well as any more expensive Refrigerator.

Beautiful Pine; massive double walls interlined with heavy sheathing of charcoal and with deep, dead-air space; every joint tongued and grooved; no wooden surface to absorb impurities. Provision chamber of heavy galvanized steel, steel shelves, free action durable casters, massive door and cover, case of thoroughly seasoned Pine, finished in dark "Golden Oak."

No.	Lbs. Ice.	Length.	Depth.	Height.	List Price.	Special Price.
101	30	24 in.	18 in.	38 in.	\$20.00	\$10.25
102 1/2	60	27 in.	20 in.	42 in.	26.25	13.25
104	100	33 in.	21 in.	45 in.	32.25	16.25

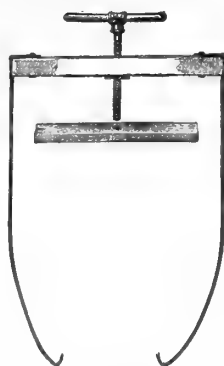
If with cooler, add \$9.50 to list. Special price, \$5.25.



"White Mountain" Hardwood Ice Chest

Our superior Hardwood Ice Chest in three nicely graded sizes, each conveniently arranged and easily cleaned. "Golden Oak" finished case, has extra thick and thoroughly insulated walls. Shelves and ice rack of galvanized steel. Made to excel in economy, food preservation and handsome appearance.

No.	Depth.	Height.	Length.	List Price.	Special Price.
11	21 in.	31 in.	28 in.	\$24.25	\$13.00
14	22 in.	35 in.	36 in.	29.20	15.00
15	24 in.	37 in.	39 in.	33.25	17.00



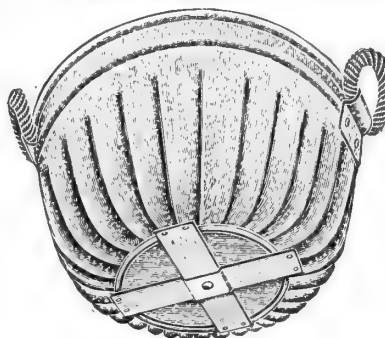
IMPROVED BARREL HEADERS

The Nos. 1 and 2 Barrel Headers have the followers attached to the screw, which device is patented. The follower attached thus can revolve, and is taken up with the screw after the barrel is headed. The side clamps are steel and fastened with two bolts.

Prices.

No. 1 and No. 1A, with 7/8-inch screw	\$1.50
No. 2, with 1-inch screw	2.00
No. 6, with lever	1.50

GALVANIZED STEEL BASKETS



With Reinforced or Double Steel Bottoms.

Bushel—A 101—
Each\$1.00

UTILITY STEEL BASKETS.

Japanned Dry Measure. With Bale and Side Handles. Half-Bushel, 45c. With Patented Clips and Drop Handles, Half-Bushel, 45c. Bushel, 60c. 1 1/2 Bushels, 75c.



UTILITY STEEL BASKETS GALVANIZED.

With Bale or Side Handles, 1/2-Bushel, 50c. 1 Bushel, 65c. 1 1/2 Bushels, 90c.

OAK BASKETS.

One Bushel with Rim, 80c. 1 1/4 Bushels with Rim, 90c. 1 1/2 Bushels with Rim, \$1.00.

CORN BARRELS

	Each.
Without handles	\$4.50
With handles	5.00



CEDAR AND OAK MEASURES

	Each.
1/4-Peck, wire hoops	\$.35
1/4-Peck, 2d quality, flat hoops	.25
1/2 and 1/4-Peck comb., wire hoops	.45
1/2 and 1/4-Peck comb., 2d quality, flat hoops	.35
Peck & 1/2-Peck comb., wire hoops	.50
Peck & 1/2-Peck, 2d quality, flat hoops	.40
1/2-Bushel, wire hoops	.75
1/2-Bushel, 2d quality, flat hoops	.50
1/2-Bushel, oak, iron cross-bar	1.25

WHITMAN & BARNES LAWN MOWERS

SUPERIOR POINTS IN CONSTRUCTION OF WHITMAN & BARNES LAWN MOWERS

HANDLE ABOVE REEL BEARINGS GIVES GREATEST LEVERAGE. MAKES MOWER RUN WITH LEAST EFFORT AND POWER.

BALL BEARING ADJUSTMENT HAS CUPS, CONES, BALLS, OF HIGH GRADE STEEL. CAREFULLY HARDENED, ACCURATELY GROUND, DUST PROOF

EXTRA LARGE PINION. DEEP CLUTCH AND HARDENED PAWL GIVE LONG LIFE TO THESE DRIVING PARTS.

ANTI-FRICTION REEL BEARINGS ON PLAIN MOWERS PLACED WHERE THE GREATEST LOAD IS CARRIED.

TIE ROD HELPS GATHER LONG GRASS UNDER THE REEL KNIVES

BEARING ADJUSTMENT ON PLAIN AND BALL BEARING MOWERS MADE BY TURNING ONE SCREW. EASILY UNDERSTOOD.

STEEL CLIP BOLTED TO CASING, FITTED TO FLANGE ON SOLID HUB, PREVENTS WHEELS WORKING LOOSE.

SIMPLE ADJUSTMENT CUTTER BAR TO REEL FROM ABOVE BY SET SCREWS, ALWAYS IN SIGHT.

O.I. POCKETS RETAIN OIL, PERMITTING IT TO REACH ALL BEARINGS. SAVES WEAR.

SELF-SHARPENING MADE POSSIBLE BY PERFECT ADJUSTMENT, BRINGING CUTTER BAR BLADE AND REEL KNIVES TOGETHER IN A SHEAR CUT.

WHITMAN & BARNES MOWERS EQUIPPED WITH GRASS CATCHER HOOKS.

CUTTER BAR LOCKING THE FRAME GIVES RIGID CONSTRUCTION KEEPS MOWER IN ALIGNMENT.

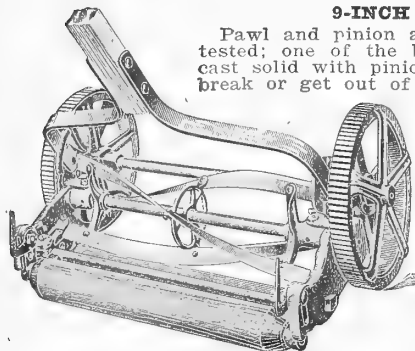
NEW NORKA MOWER

9-INCH WHEEL.

Pawl and pinion attachment thoroughly tested; one of the best. Ratchet Clutch, cast solid with pinion; no extra pieces to break or get out of order.

Do not class with the cheap low-wheel machines.

Regular.	
10 in.	\$3.25
12 in.	3.50
14 in.	3.75
16 in.	4.00
18 in.	4.50
Ball Bearings.	
14 in.	\$4.75
16 in.	5.00
18 in.	5.25



LITTLE SHAVER MOWER

Low priced and good. 12 in., \$2.50. 14 in., \$2.75. 16 in., \$3.00.

W. & B. JR. LAWN MOWER

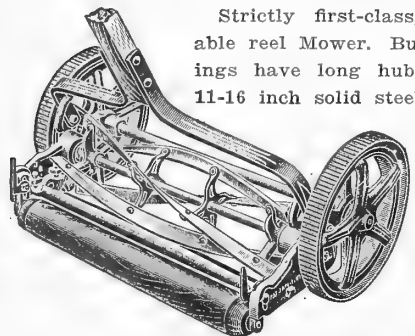
Strictly first-class, high-wheel, adjustable reel Mower. Built very strong. Casings have long hubs, through which an 11-16 inch solid steel shaft is passed.

Regular.

14 ins.	\$6.50
16 ins.	7.00
18 ins.	7.50
20 ins.	8.00

Ball Bearings.

14 ins.	\$7.50
16 ins.	8.00
18 ins.	8.50
20 ins.	9.00



"NEW ELECTRIC" MOWER

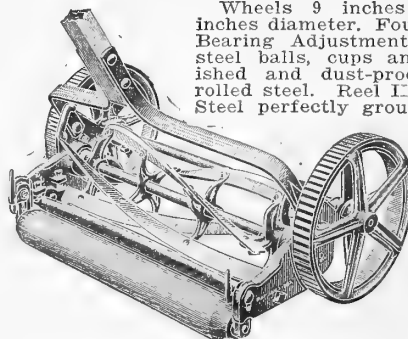
Wheels 9 inches diameter. Reel 5 1/2 inches diameter. Four blades. Special Ball-Bearing Adjustment, high-grade hardened steel balls, cups and cones, ground, polished and dust-proof. Reel shaft cold-rolled steel. Reel knives best grade Knife Steel perfectly ground.

Regular.

12 in.	\$4.50
14 in.	4.75
16 in.	5.00
18 in.	5.25

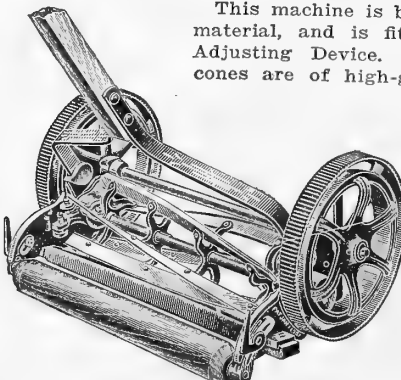
Ball Bearings.

12 in.	\$5.50
14 in.	5.75
16 in.	6.00
18 in.	6.25



DIAMOND SPECIAL BALL-BEARING MOWER

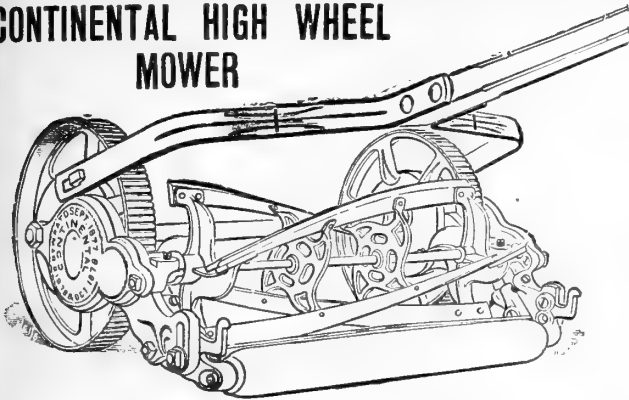
This machine is built of highest quality material, and is fitted with Ball-Bearing Adjusting Device. The balls, cups and cones are of high-grade, uniformly hardened, polished and dust-proof. The reel has five blades of best knife steel, and is adjusted to the Cutter Bar by a special adjusting and locking device. Wheels, 10 inches in diameter.



14 ins.	\$9.75
16 ins.	10.50
18 ins.	11.25
20 ins.	12.00

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

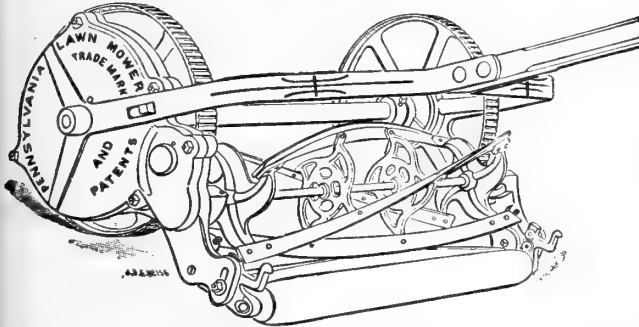
CONTINENTAL HIGH WHEEL MOWER



This very high-grade machine will cut fine grass two inches high; also grass six to eight inches. We highly recommend this machine.

	List.	Retail.		List.	Retail.
15 ins.....	\$25.00	\$13.00	19 ins.....	\$31.00	\$16.00
17 ins.....	28.00	14.50	21 ins.....	34.00	17.50

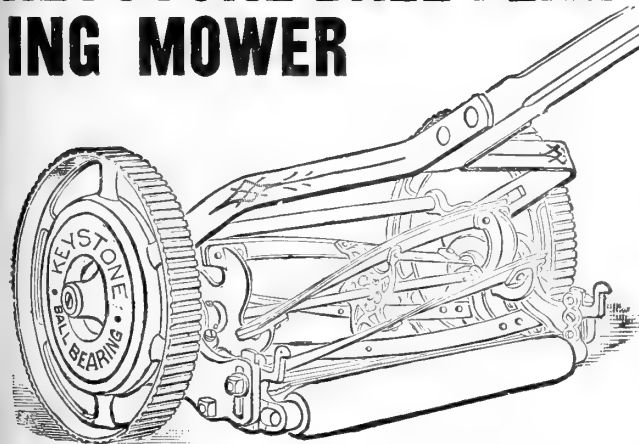
PENNSYLVANIA HIGH WHEEL MOWER



This high-grade Mower is constructed for cutting ordinary grass, as well as grass from 6 to 10 inches high. Wheel, 10½ inches; cylinder, 6½ inches. Four crucible steel knives.

	List.	Retail.		List.	Retail.
15 ins.....	\$25.00	\$13.00	19 ins.....	\$31.00	\$16.00
17 ins.....	28.00	14.50	21 ins.....	34.00	17.50

KEYSTONE BALL BEARING MOWER

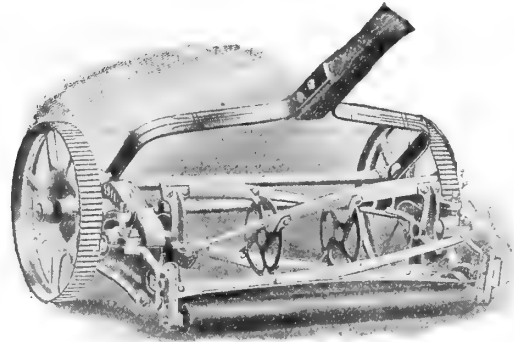


Every detail of this Mower is in keeping with the high-grade of the Pennsylvania and Continental. Can be regulated to cut from ¾ to 1½ inches from the ground.

	List.	Retail.		List.	Retail.
15 ins.....	\$25.00	\$10.50	19 ins.....	\$31.00	\$13.50
17 ins.....	28.00	12.00	21 ins.....	34.00	15.00

PHILADELPHIA HIGH WHEEL MOWER

STYLE E



Driving Wheels, 10 inches; cylinder, with four knives; diameter of cylinder, 6½ inches; train of three gears; double ratchet; removable box-caps to take out cylinder for sharpening.

15 ins.....	List price, \$25.00	Retail price, \$9.50
17 ins.....	List price, 28.00	Retail price, 10.50
19 ins.....	List price, 31.00	Retail price, 11.50
21 ins.....	List price, 34.00	Retail price, 12.50

GOLF ROLLER MOWER

Peculiarly adapted for use on Golf and Tennis Grounds.

The heavy iron roller, together with the speed of the revolving knives, produces the very best results, leaving a smooth-cut surface on the lawn.

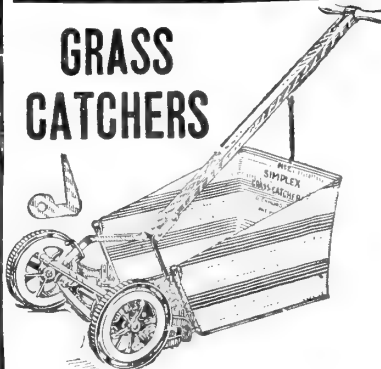
The adjustments are simple and the durability and efficiency beyond question.



	Factory List Price.	Our Special Price.
10-inch, 4 blades...	\$13.00	\$9.10
12-inch, 4 blades...	15.00	10.50
14-inch, 4 blades...	17.00	12.00
16-inch, 4 blades...	19.00	13.00
18-inch, 4 blades...	21.00	15.00
20-inch, 4 blades...	23.00	16.00

For 6 blades, add to Factory List Price \$1.00. For Retail, add 70c.

GRASS CATCHERS



No. 110—**CANVAS CATCHER**, made of fine quality duck, heavy galvanized wire frame; adjustable steel hooks; will fit any mower, 12 to 16 inches wide\$.50

No. 115—**CANVAS CATCHER**, same as No. 110, but will fit mowers, from 14 to 20 inches wide... .60

No. 160H—**METAL BOTTOM CATCHER**, 13 inches deep, made of heavy duck; heavy galvanized wire frame; adjustable steel hooks, will fit any mower. Also equipped with our perfection handle, a great convenience. Adjustable to mowers, 12 to 16 inches wide..... .75

No. 165H—**METAL BOTTOM CATCHER**, same as No. 160H, but for mowers, 16 to 20 inches wide..... .85

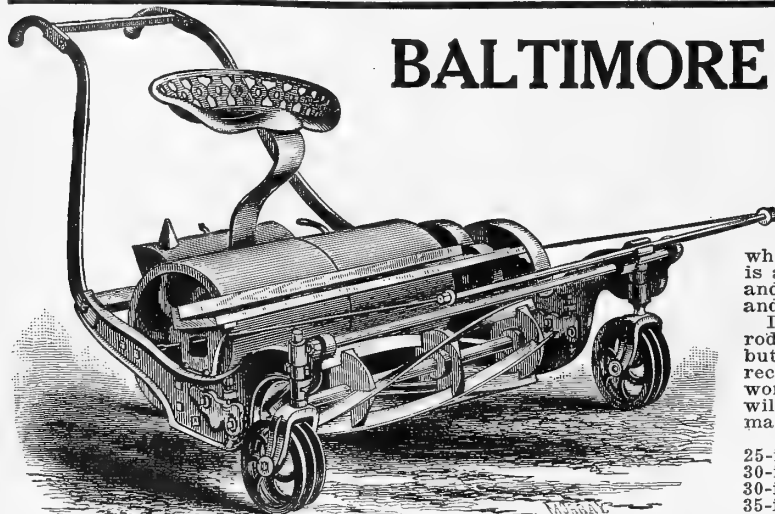
No. 250H—**METAL BOTTOM CATCHER**, 16 inches deep, made of heavy duck; heavy galvanized wire frame; adjustable steel hooks, will fit any mower, equipped with perfection handle. Adjustable to mowers, 12 to 16 inches wide85

No. 255H—**METAL BOTTOM CATCHER**, same as No. 250H, but for mowers, 16 to 20 inches wide..... 1.00

LAWN MOWER REPAIRING AND SHARPENING

SEND in your **LAWN MOWERS** early for sharpening and repairing. This department, in season, is run to its full capacity, and in consequence we are compelled to adopt the policy of "first come first served." We wish to urge upon our friends the necessity for complying with the above request. If they do no one need have to wait while the grass is growing. **Look over your machine during the winter** (this applies to other kinds of machinery as well as Lawn Mowers), **and see what repairs are needed. Do not wait until spring work is crowding you.** We employ efficient mechanics to do our machine repairing, and turn out jobs in the best possible manner and as expeditiously as the quality of the work will admit. To properly sharpen a Lawn Mower requires someone who thoroughly understands his business, and even though it may be properly sharpened, unless it is adjusted to a hair it will not cut. After we turn out a machine it should be severely let alone, and if it does not cut send it back to us, and do not attempt to adjust it yourself. There is no mower that leaves our shop that is not adjusted to cut tissue paper, and if it does not do the work satisfactorily it is owing to hard usage before reaching its destination. The cheap machines that are flooding the market are made of cheap material and will wear only a short while, and can rarely be repaired at all.

BALTIMORE HORSE LAWN MOWER



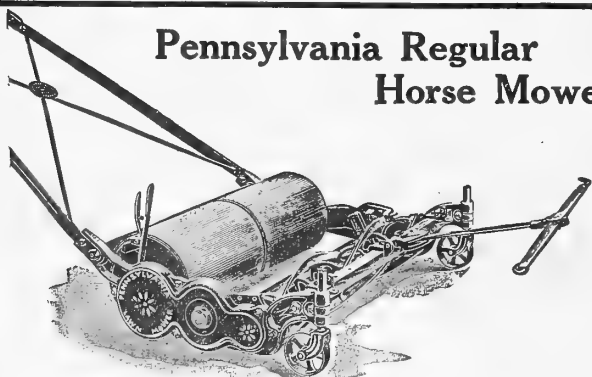
The Baltimore Horse Lawn Mower is made of best material; most satisfactory adjustment of knives; strong and durable; open castor wheels which do not press down the grass; heavy roller, which is a necessity to keep the lawn in good order; simplest and strongest machine in construction on the market, and most economical as far as repairs are concerned.

It is made with shafts and seat, and also with draft rod. For hilly lawns, we recommend shafts and seat, but for level lawns with many trees and shrubbery, we recommend the draft rod, as it enables the driver to work the machine close to them. See it work, and you will be convinced that it is the most practical machine made.

	Our Spec. Price.	Factory List Price.
25-inch Machine, with draft rod.....	\$42.50	\$65.00
30-inch Machine, with draft rod.....	63.00	100.00
30-inch Machine, shafts and seat.....	68.00	110.00
35-inch Machine, shafts and seat.....	80.00	135.00

Special Discount for Cash.

Pennsylvania Regular Horse Mower



Furnished with handles and draft irons, the latter arranged to swing to the side, thus permitting the horse to walk on the cut grass.

30-inch—Factory List Price, **\$100.00** Our Special Price, **\$70.00**
38-inch—Factory List Price, **130.00** Our Special Price, **91.00**

30-inch—Weight, 358 lbs.; 4 knives.

38-inch—Weight, 400 lbs.; 4 knives.

For shafts, seat and footboard, add Factory List Price, **\$20.00**; Our Special Price, **\$14.00**.

New "Penna. Grand" Horse Mower

The high-grade material and workmanship of this Mower are characteristic of all machines of this make. The wheel at the right of the driver's seat regulates the height of cut from $\frac{1}{8}$ -inch to $\frac{2}{3}$ inches. The operator, without leaving his seat, can instantly change from low to high cut. Diameter of cylinder, $\frac{7}{8}$ inches. Diameter of drums or rollers, 15 inches.

With Handles and Draft Irons only—

30-inch Cut.	Our Spec. Pr.	Fac. List. Pr.
4 Knives, shipping weight, 595 lbs.....	\$75.00	\$100.00
6 Knives, shipping weight, 605 lbs.....	84.00	112.50
Complete with Seat, Shafts, etc.—		

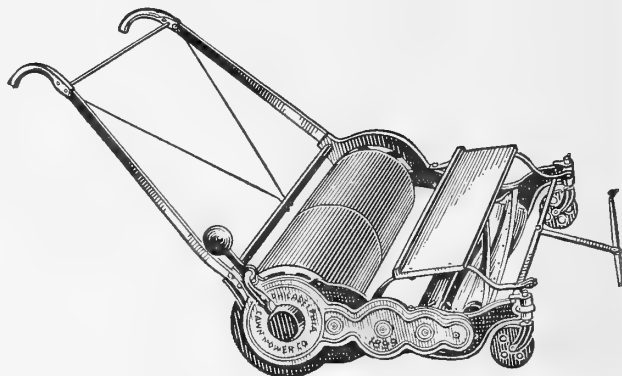
	Our Spec. Pr.	Fac. List. Pr.
4 Knives, weight, 635 lbs.....	\$90.00	\$120.00
6 Knives, weight, 645 lbs.....	99.00	132.50

With Handles and Draft Irons only—

38-inch Cut.	Our Spec. Pr.	Fac. List. Pr.
4 Knives, shipping weight, 675 lbs.....	\$97.00	\$130.00
6 Knives, shipping weight, 705 lbs.....	107.00	142.50
Complete with Seat, Shafts, etc.—		

	Our Spec. Pr.	Fac. List. Pr.
4 Knives, weight, 720 lbs.....	\$112.50	\$150.00
6 Knives, weight, 750 lbs.....	122.00	162.50

Old Style Philadelphia Horse Mower



Cylinder open or solid, with 4 blades, for 30-inch only.

Cylinder open on 35-inch only.

Height of Driving Roller, $11\frac{1}{4}$ inches. Diameter of Cylinder, $\frac{6}{8}$ inches.

30-inch, with draft pole. Factory List Price, **\$100.00**. Our Special Price, **\$72.50**.

35-inch, with draft pole. Factory List Price, **\$120.00**. Our Special Price, **\$87.50**.

30-inch, with seat, shafts and side-draft attachments. Factory List Price, **\$120.00**. Our Special Price, **\$87.50**.

35-inch, with seat, shafts and side-draft attachments. Factory List Price, **\$140.00**. Our Special Price, **\$100.00**.

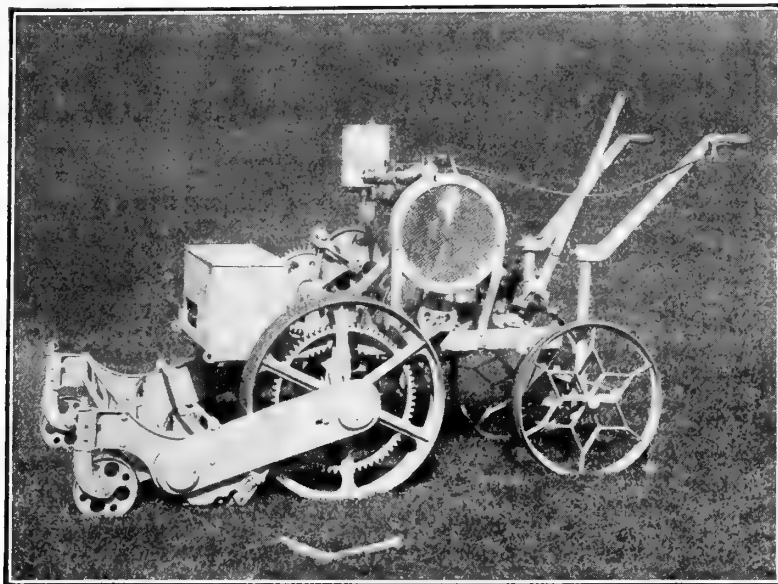
Philadelphia Eagle Horse Mower

The latest production of the Philadelphia Lawn Mower Co. in horse mowers, and, in our opinion, one of the best machines they ever produced.

30-inch, with seat and shafts and draft pole. Factory List Price, **\$100.00**. Retail Price, **\$75.00**.

35-inch, with seat and shafts and draft pole. Factory List Price, **\$125.00**. Retail Price, **\$95.00**.

40-inch, with seat and shafts and draft pole. Factory List Price, **\$150.00**. Retail Price, **\$112.00**.



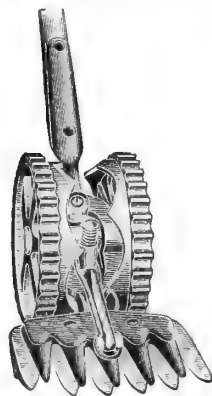
THE MOW RITE MOTOR LAWN MOWER

For several years there has been a demand for a practical motor lawn mower for use on large lawns. There have been a number of different types of mowers offered which have been more or less used, but the **Mow Rite Mower**, which is illustrated here, is so decidedly superior to the other motor mowers which have been previously offered that it has won, right at the start, the enthusiastic approval of park men and lawn keepers. In our field demonstrations capable men who have passed unfavorably on other types of motor mowers have been completely won over by a single demonstration of the **Mow Rite Motor Mower**. The **Mow Rite Motor Lawn Mower** is built with the power plant mounted on the main truck, and the cutting mechanism hung on a floating frame in front. The motor used is the well known De Luxe, power of which ranges from 3 to 7½ H. P. The width of the cut is 30 inches, the transmission is very simple and ingenious, and the speed of both motor and cutter is readily controlled by the operator. One of the conspicuous features is the reverse lever; also the handy steering device. The mower is guided by the back wheels, which turn readily and are controlled by the handles. We ask anyone interested in motor mowers to be sure to write and get pamphlet of the **Mow Rite Motor Lawn Mower** before making arrangements for a machine.

Price, 30-Inch Mow Rite with magneto . . . \$300.00.

"ELECTRIC" LAWN TRIMMER

NECESSARY FOR EVERY WELL-KEPT LAWN

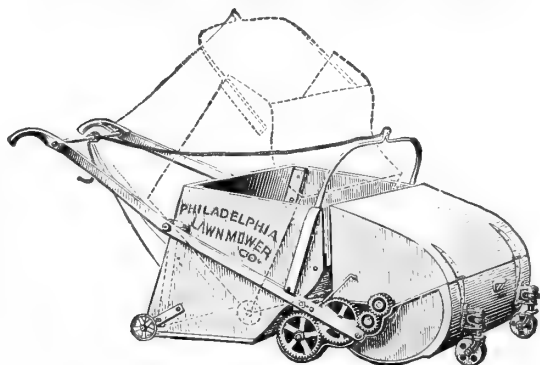


Trims grass as fast as the operator walks. Does away with grass shears. Saves time and back aches. Clips grass of any height and weeds of ordinary growth. It will quickly clip rough edges on a lawn, and make it the pride of the neighborhood. Works under shrubbery, close to walls, trims edges of walks and around trees where a lawn mower cannot be used. It will cut the grass on banks or terraces because of its light weight and easy operation. Overcomes a heretofore hard and laborious task, and makes lawn trimming a pleasure, because it is so easy.

The "ELECTRIC" has been thoroughly tested, and gives complete satisfaction.

PRICE \$2.50.

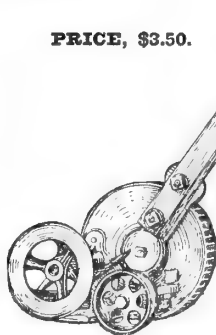
PHILADELPHIA HORSE LAWN SWEEPER



Drawn by draft, rod same as horse mower. Height of driving roller, 9½ inches. Diameter of brooms, 20 inches.

List Price Our Special Price, \$80.00.

PRICE, \$3.50.



THE UTICA LAWN TRIMMER

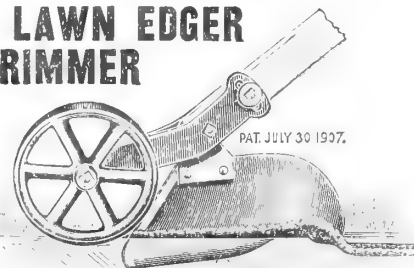
Made of high quality steel. Cuts every blade of grass left by a lawn mower close to buildings, fences, shrubbery, trees, flower beds, etc. Does better work in one-third the time it would take with shears or grass hooks.

Can be used with one hand. Weighs only 12 pounds. Strong and well made. Knives keen edged, with a 5-inch cut. Price, \$3.50.

"DIAMOND" LAWN EDGER AND TRIMMER

For trimming the edges of lawns along cement walks, driveways and gravel walks, and may also be used for outlining flower beds of various shapes, such as stars, circles, diamonds, crescents, etc.

Price, \$2.00.

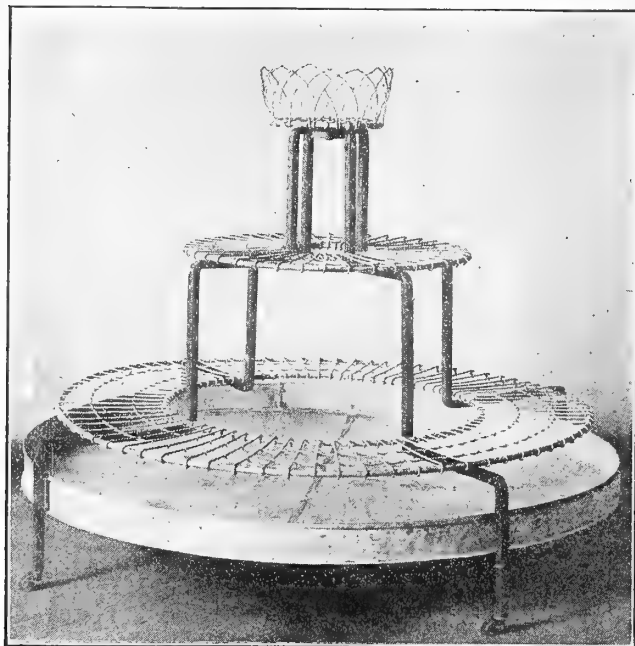


HORSE LAWN BOOTS



Fastened firmly to hoof instead of around ankle, giving free action to horse's feet. Rolling toe prevents cutting of turf. Width inside, No. 2, 5½ inches; No. 4, 6½ inches; No. 6, 7 inches—the right sizes for Nos. 2, 4 and 6 horseshoes. No. 0 Mule and No. 1 Pony. Special sizes to order. Width inside, 4 inches; 4½ inches. Factory List Price, \$19.00. Our Special Price, per set, \$10.50.

THE CHALK PLANT STAND



The Chalk Flower Stand Ready for Use.

A BOON TO FLOWER LOVERS

A GARDEN IN YOUR HOUSE OR ON YOUR PORCH.

By loosening one bolt, it can be knocked down flat. The Chalk Patented Flower Stand is a practical invention by a practical man. An invention inspired by his needing something which he could not buy—HE MADE IT.

The illustrations show the Chalk Plant Stand set up with drip pan in position. The stand is designed with a view to strength, holding capacity, convenience and to having a stand that will give the plants light and air, and on which they may be freely watered either in the house or on the porch. As a result the problem of having house plants of luxuriant growth is simplified.

The Chalk Plant Stand is also valuable to florists, as it is just the thing for displaying plants in stores and on market stalls.

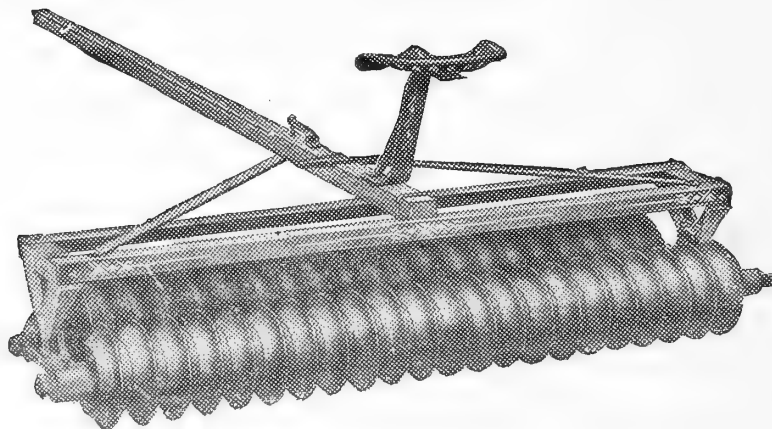
PRICE\$10.00.

GRITCO-D DOUBLE GANG PULVERIZER

WITH POLE



Showing
One-Piece
Wheel.



This machine is a heavier tool than the one shown on preceding page, and does a more thorough job of pulverizing.

The wheels are cast in one piece semi-steel, and mounted on 1 1/4-inch steel axles. The frames are 2 1/2-inch carbon steel angles.

This gives the weight in the machine, which is better and more convenient than having to add it in weight boxes.

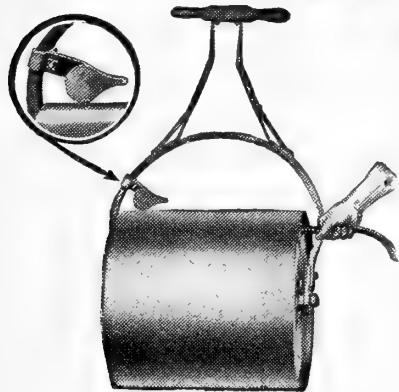
The back row of wheels splits the ridges left by the front wheels, thus crushing every lump. This splitting action also stirs the surface to leave a fine mulch.



Field Showing Work of Double
Gang Pulverizer.

No.	Length.	Diam. Wheels.	Weight.	Factory List Price.	Our Special Price.
649%	6 ft.	12 in.	700 lbs.	\$45.00	\$32.50
651	8 ft.	12 in.	900 lbs.	53.00	38.00

WATER BALLAST LAWN ROLLER



No-Tip attachment holds handle upright when not in use.

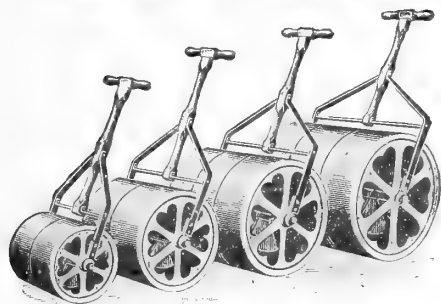
This roller can be filled with water to any desired weight. It can thus be regulated to suit soft turf, firm lawns or driveway, tennis court, etc. It can be emptied for storing away, making it light and easy to handle. The drum is high carbon steel with all seams electric welded. Edges are rounded back to prevent cutting of lawns, courts, etc.

The axle is mounted on roller bearings, making the roller run very easily.

Order No.	Diam. of Drum.	Length of Drum.	Weight, Empty.	Weight Filled with Water.	Factory List Price.	Our Special Price.
WB 5	18 in.	24 in.	80 lbs.	310 lbs.	\$13.00	\$10.50
WB 7	24 in.	24 in.	115 lbs.	500 lbs.	17.00	13.75
WB 9	24 in.	32 in.	130 lbs.	650 lbs.	19.00	15.25

HAND LAWN ROLLER

(CAST IRON.)



These rollers are especially desirable; they will not dent; wet grass and dirt does not cling to them, owing to their highly polished surface. Have counterbalance, which holds up the handle and makes it easy to push.

No.	No. Sec.	Width Face.	Diam. Sec.	Total Length.	Weight.	Factory List Price.	Our Special Price.
4 or 404	2	10 in.	20 in.	20 in.	250 lbs.	\$15.50	\$12.50
6 or 406	2	8 in.	20 in.	24 in.	300 lbs.	18.50	14.75
9 or 409	2	10 in.	24 in.	20 in.	400 lbs.	24.50	19.50

GRITCO-P PULVERIZER AND CLOD CRUSHER

The discs or wheels in this roller are hollow, being made of the saucer-shaped pieces of steel, riveted together. One row of discs comes directly behind the other, crushing lumps, packing the soil underneath and fitting the bed for seeding.

Length.	Weight.	List Price.	Our Special Price.
6 ft.	525 lbs. without pole.	\$50.00	\$35.00
	550 lbs. with pole.	54.50	37.50

SPECIAL DISCOUNT FOR CASH.

HORSE LAWN ROLLER GRITCO-D ONE HORSE LAWN ROLLER

Shafts are made very substantial and well braced. Double-leaf spring seat, therefore less jar than on other lawn rollers. Removable self-oiling bearings. Axle 1 1/4-inch diameter. Can be weighted to any desired weight. Just the thing for small farms, lawns and truck farms.



Length, Feet.	Diameter, Inches.	No. of Sections.	List Price.	Our Special Price.
4	24	2	\$30.00	\$22.50

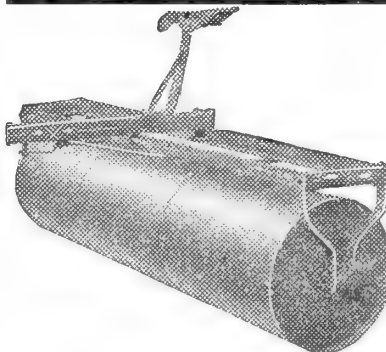
HORSE LAWN ROLLER "WATER BALLAST"

This roller is made in the same substantial manner as the other water ballast roller shown opposite. It is furnished with shafts and single-trees. Especially suited to parks, cemeteries, large estates, etc.

Order No.	Length.	Diameter.	Sections.	Weight, Empty.	Filled with Water.	List Price.	Our Special Price.
HWR 20	4 ft.	24 in.	2	400 lbs.	1000 lbs.	\$75.00	\$50.00

STEEL LAND ROLLERS

STEEL DRUMS.
This Is Our Leader.



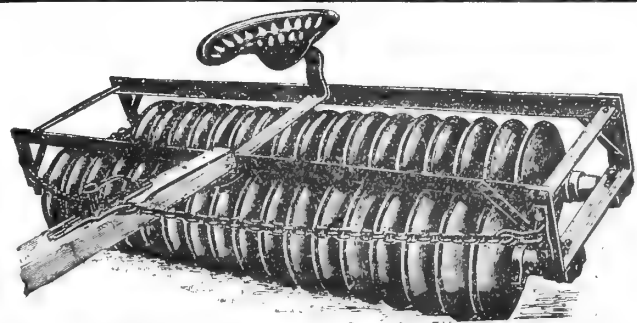
Drums are 24 inches in diameter of special high carbon steel, with closed ends pressed from the same materials.

BEARINGS—Both of these machines are furnished with hardwood removable bearings.

AXLE—The axle is 1 1/4-inch round Machine Steel, and extends the full length of machine. It is held in place by cotters.

FRAME—The frame is made of heavy angle steel, which forms a very convenient weight box if extra weight is required. These frames are special high carbon steel, and will not bend.

No.	Length, Feet.	Diam. Inches.	Sections.	Weight, lbs.	Factory List Price.	Our Special Price.
JS 535	8	24	2	560	\$30.50	\$23.00
JS 536	8	24	3	585	32.00	25.00



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



THE BONANZA LAWN SWING.

Accompanying cut represents our "Bonanza" four-passenger Lawn Swing. It is also built in two-passenger. Made of hardwood, with $\frac{3}{4}$ -inch bolted frame.

Has three-seat and foot-rest adjustments. Frame painted red; balance of swing golden oak. Hooks where swing bars hang on iron rods at top of frame.

Dimensions.

Height 9 ft.
Seat Space.....34 in.
Ground Space, 9 ft.
4 in. x 6 ft.

Prices.

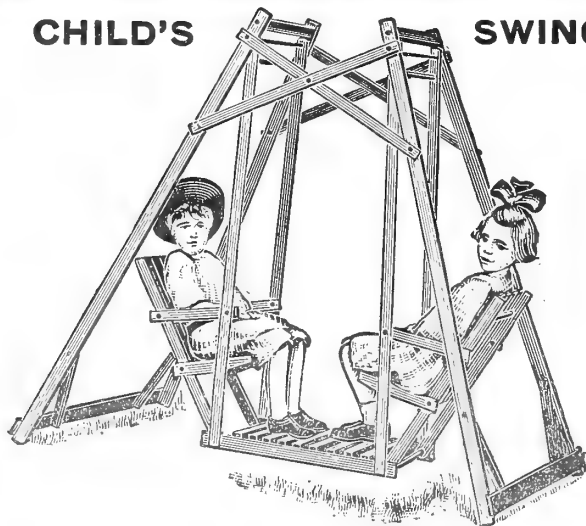
List Price.	Our Special Price.
2-Passenger: \$7.00	\$5.00
4-Passenger: \$9.00	\$6.50

WINNER LAWN SWING.

This Lawn Swing is made of hardwood, frame painted a bright vermilion, chairs, hangers and foot-rest a beautiful golden oak, and is a splendid value for the money.

List Price.	Our Special Price.
2-Passenger: \$5.50	\$3.50
4-Passenger: \$7.50	\$5.50

CHILD'S SWING



New and original idea, cutting down the high-derrick swing to meet the demand of the small children, and cater to their delight and welfare. The most useful article for the entertainment of the children. Can be used in the nursery, parlor, on the porch or lawn. Useful all the year around. Frame is painted bright vermilion, chairs and hangers golden oak finish. Floor space, 4 feet 11 inches by 3 feet 4 inches

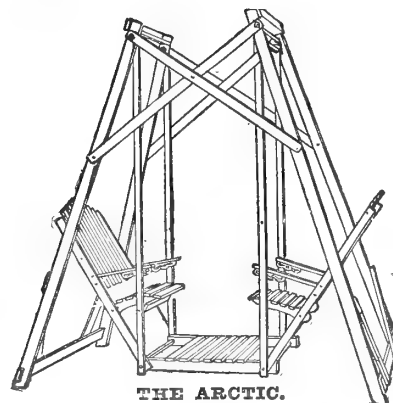
List Price.	Our Special Price.
2-Passenger..... \$5.00	\$3.25

"OZONE" STEEL LAWN SWING.

Made of 35 carbon steel throughout, except seats and platform, which are made of $\frac{3}{4}$ -in. hardwood. Height, 9 ft. 8 ins.; width of seats, 34 ins.; height of backs above seats, 30 ins. It is nicely finished. Weight, 224 lbs.

Four Passenger: List Price, \$19.00. Our Special Price, \$12.50.

LAWN SWINGS



THE ARCTIC.

Selected stock, very strong. Chairs have three adjustments. Foot-rest can be raised level with seats to form hammock. Can adapt height of seats for children. Two and four passengers.

List Price.	Our Special Price.
2-Passenger, weight 125 lbs.....	\$11.50
4-Passenger, weight 160 lbs.....	14.50
	9.00

ARCTIC SWINGING CHAIR.

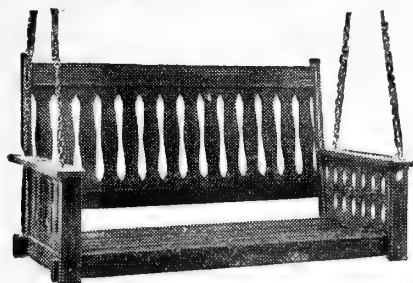
The Latest Design for a Swinging Chair Yet Produced.

Occupies a space about six feet long by three feet wide, and about six feet high. Made of the most substantial material.

List Price, \$6.50.

Our Special Price, \$4.00.

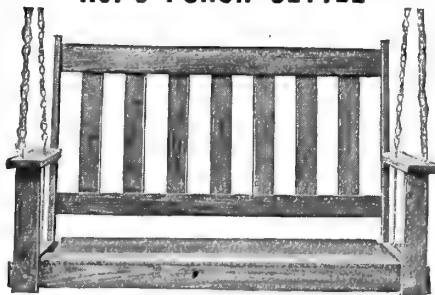
No. 8 MISSION PORCH SETTEE



1 1/4-inch oak stock, very strong and substantial, mission effect, smooth and well finished, saddle seat. Put together with rods and bolts. Ceiling hooks and galvanized chains with each settee. Enough slant in back to make it most desirable and comfortable.

	List Price.	Our Special Price.
No. 8—4-foot.....	\$ 8.00	\$5.25
No. 8—5-foot.....	10.00	6.50
No. 8—6-foot.....	12.00	7.75

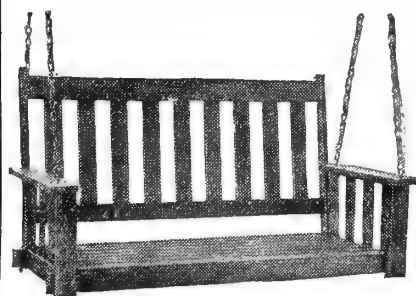
No. 6 PORCH SETTEE



Made from 1-inch oak stock. In design the lines are very much the same as the No. 7, made with formed seat, as shown in cut, but without the paneled ends. The swing is equipped with best galvanized swing chains, and finished in weathered oak.

	List Price.	Our Special Price.
No. 6—4-foot.....	\$5.50	\$3.50
No. 6—5-foot.....	6.90	4.50
No. 6—6-foot.....	8.25	5.25

No. 7 PORCH SETTEE



Very popular and durable. Finished in weathered oak. All slats bolted to frame; no rivets.

	List Price.	Our Special Price.
No. 7—4-foot.....	\$6.00	\$4.00
No. 7—5-foot.....	7.50	5.00
No. 7—6-foot.....	9.00	6.00



Baltimore Lawn Settees

	List Price.	Our Special Price.
Four feet	\$5.50	\$3.50
Five feet	6.80	4.25

Attractive and gives plenty of room. Just the thing for parks, porches, picnic grounds, hotels, cemeteries, etc. Painted bright red and varnished.

LAWN SETTEE



36 INCHES.

High back, easy rest. Finished in golden oak, or painted red. Heavy slats are used in these settees; nothing cheap about them. Have the right shape for solid comfort. The best low-priced settee on the market. Can be folded flat when put away for the winter. Our

List Price Sp'l Price

Golden Oak, each.....	\$2.00	\$1.20
Painted Red, each.....	2.25	1.50

PORCH SWING CHAINS.

Complete set Chains, with Screw Hook for Porch Swings.

List Price, 80c.; Our Special Price, 50c.

FOLDING CHAIR



This Folding Chair is made of the best material, and fills a real want. It allows the automobilist to increase the capacity of his car without crowding, and is an ideal chair for motorboats. It can be folded sufficiently small to be carried under the seat of an automobile or stored under the bow of a motorboat.

No. 106—Japanned Art—List Price, \$2.75. Our Special Price, \$1.75.

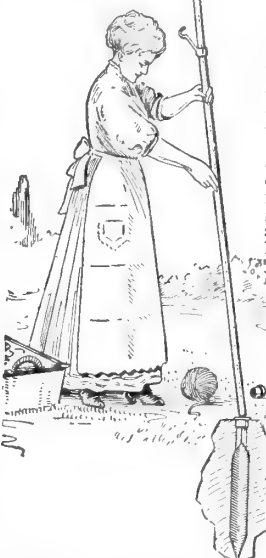
THIRD SEAT



A Third Seat allows 3 people to ride comfortably in any carriage. It is also very useful about the house as a stool or child's seat. Being made of selected material, it is strong and durable. It is simple in construction, and cannot get out of order.

List Price, 85c.; Our Special Price, 60c.

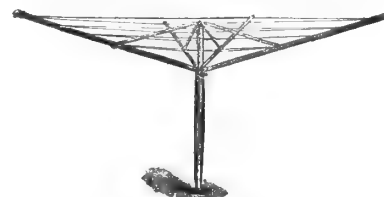
REMOVABLE STEEL CLOTHES-LINE POST



Made of 1 1/4-in. special high-grade tubing, filled with concrete, a patented process which adds materially to the strength. These posts are provided with a separate socket or base, which is driven into the ground, and this base is furnished with a drive cap. The posts are set into the base, and can be readily lifted out when not in use. This is a great convenience, as it enables a lawn mower to be pushed over the base, and saves the trouble of trimming around the posts with hand shears. The posts are more sightly than wood posts, and practically everlasting.

Complete with base.....List Price, \$2.50
Complete with base, Our Special Price, \$1.50

FOLDING CLOTHES DRYER



This is the best folding dryer to be had. Takes up but little space in yard. Spruce arms and post, japanned castings. Made in two sizes.

Our List Special Price. Price.

No. 1 Dryer carries 110 ft. line.	\$5.60	\$3.50
No. 2 Dryer carries 150 ft. line.	6.40	4.00

CYCLONE ORNAMENTAL GALVANIZED LAWN FENCE

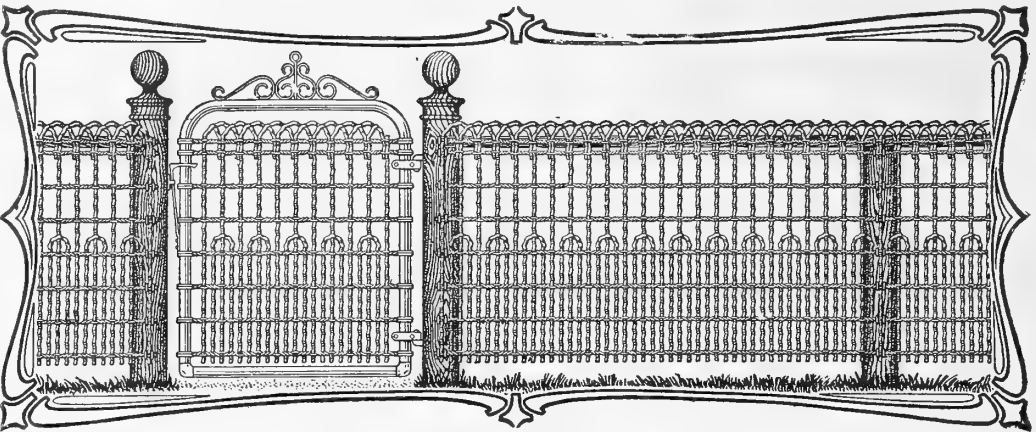
The Style F Cyclone Lawn Fence is considered by us the most attractive and most practical pattern made by the factory, and we catalogue this style exclusively. The manufacturers make a number of other styles, special circulars of which we will be pleased to send you on application. The characteristic features of Cyclone Fence are the careful uniformity of the weaving, the full-gauge wires which are used, the extra deep crimping of picket wires, which adds greatly to the beauty and strength of fence, the secure manner in which these pickets are locked in the double cable wires and the general strength of the whole fabric. The wire is carefully selected, and all of these features count for the extra lasting qualities of Cyclone Fence. With every full roll of Cyclone Fence, a fence stretcher is furnished gratis. The lawn, the yard and the home are given the appearance of comfort and attractiveness by the use of a first-class wire fence, and from a sanitary and healthful standpoint, a wire fence is far more desirable than the old style board fence.

Style F Cyclone Fence is made of No. 9 heavily galvanized wire spacing between uprights at the bottom, being 1 3/4 in., and at the top 2 3/4 in.; the cables are of heavily galvanized wire, spaced about six inches apart, except the two at top, which are spaced 2 3/4 in. apart; furnished regularly in rolls of 10 rods, or 165 feet. Any length cut to order.

Prices of Cyclone Fencing. Style F.

Height	List Price Per Ft.	Our Price.
24 in.	17c.	11c.
30 in.	19c.	12c.
36 in.	20c.	12c.
42 in.	22c.	13c.
48 in.	25c.	15c.

These prices are for the fence fabric only, and do not include posts. For prices of complete fence see below.



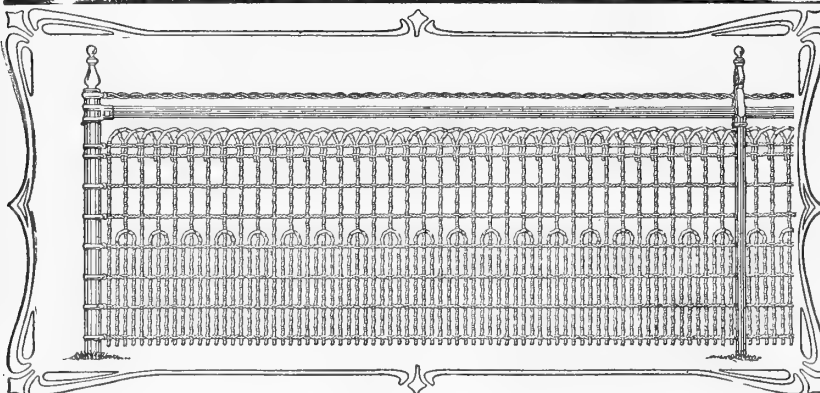
This Illustrates Style F Cyclone Fence Erected on Wooden Posts.

CYCLONE IMPERIAL COMPLETE FENCE

The Imperial is our leading and most popular style of fencing. It is a combination of simplicity and artistic beauty—a rich-looking, dignified, handsome design, suitable for any home. Has two-inch tubular corner posts, and line posts are made of two 1 1/4-inch tubes, placed one-half inch apart, allowing fabric to pass between. Rail is 1 1/4 in. in diameter, top cable has four-strand heavily galvanized braided wire, frame work is painted, or can be furnished galvanized at an additional cost.

Height.	List Price per Ft.	Our Price.
30 in.	68c.	41c.
36 in.	72c.	44c.
42 in.	76c.	46c.
48 in.	82c.	50c.

The above prices include fence fabric, painted posts and top rail, and top braid. If gates are wanted, do not deduct from fence for gateways, but add \$1.50 net on account of walk gate, and \$3.00 net on account of drive gate.



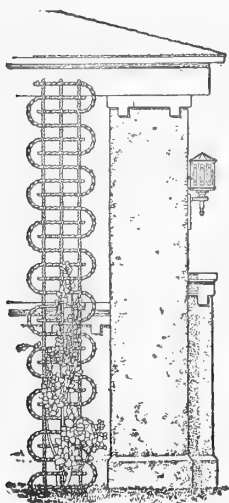
Imperial Complete Lawn Fence.

CYCLONE TRELLIS

Train your flowers on this trellis, which is an attractive and practical trellis at a few cents per foot. Cyclone Trellis is made of strong, durable, galvanized wire, which will keep its shape, and last almost indefinitely. Easily put up and cut to any length desired.

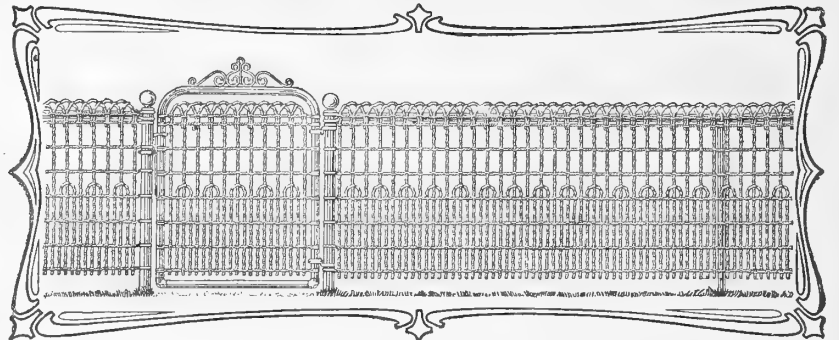
18 in. width. List Price, per ft., 8c. Our Price, 6c.

24 in. width. List Price, per ft., 10c. Our Price, 8c.



Cyclone Trellis.

COLONIAL COMPLETE FENCE

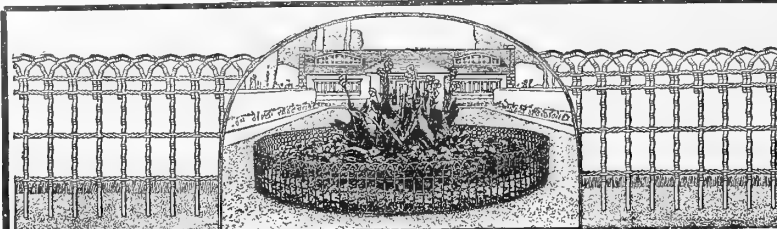


This is also a very popular fence, as the illustration shows. No top braid is used, and top finished of fabric extends above rail. Prices of Colonial Fence same as Imperial Complete Fence.

PERFECTION

FLOWER BED GUARD

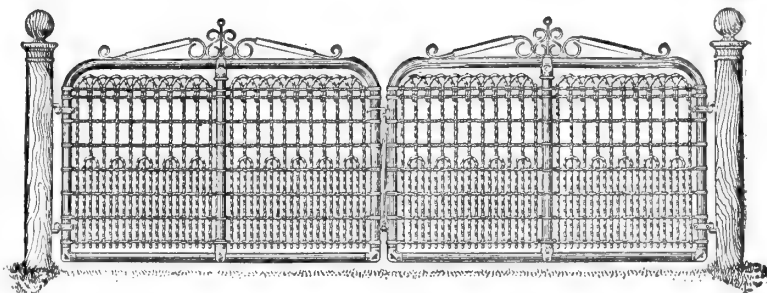
This flower-bed guard is 18 in. high. Has 4 cables, which are made of two No. 12 1/2 wires. Has No. 9 crimped uprights. All heavy galvanized pickets project for insertion in ground. Requires no posts. Can be cut to length to any bed. It provides protection against dogs and chickens. List Price, per Foot, 11c. Our Price, 7c.



Perfection Flower-Bed Guard and Lawn Border.

CYCLONE STYLE F ORNAMENTAL GATES

The frames are made of high-grade heavy steel tubing, and are regularly finished in black paint, although galvanized frames can be furnished at an additional cost. Black-painted frames are always shipped unless otherwise specified. Filling of these gates is the regular Style F—Cyclone Fabric, described on opposite page, and as shown by illustrations, the gates have ornamental scroll tops. In giving the dimensions of gates, state first the height and then the width. The width of Cyclone Gate means the distance between the posts. The factory makes proper allowance for hinges and latch.



Cyclone Style F Double Drive Gate.

WALK AND SINGLE-DRIVE GATES.

30, 36, 42 or 48 inches High.

Width, Feet.	List Price.	Our Price.
3.....	\$4.80	\$2.88
3½.....	5.20	3.12
4.....	5.60	3.36

Double Drive Gates.

30, 36, 42 or 48 Inches High.

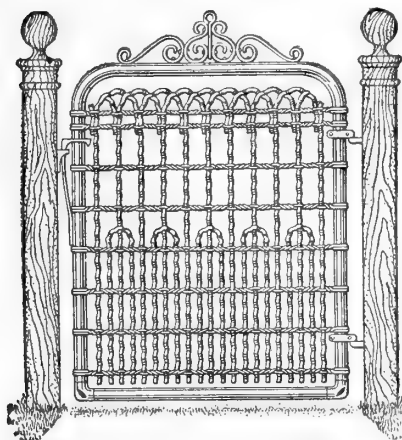
Width, Feet.	List Price.	Our Price.
8.....	\$11.20	\$ 6.72
10.....	13.00	7.80
12.....	15.00	9.00
14.....	17.00	10.20

CYCLONE UNIVERSAL GATE.

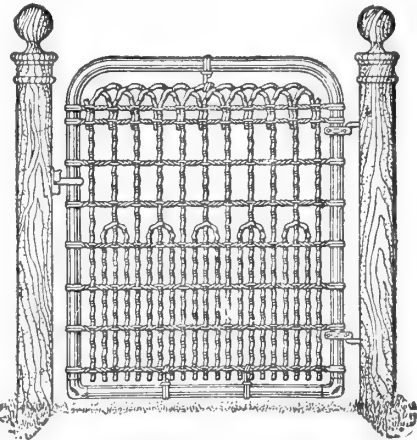
A very ornamental gate, similar to regular lawn gate without the scroll top.

Universal Walk Gate,
36, 42 or 48 Inches High.

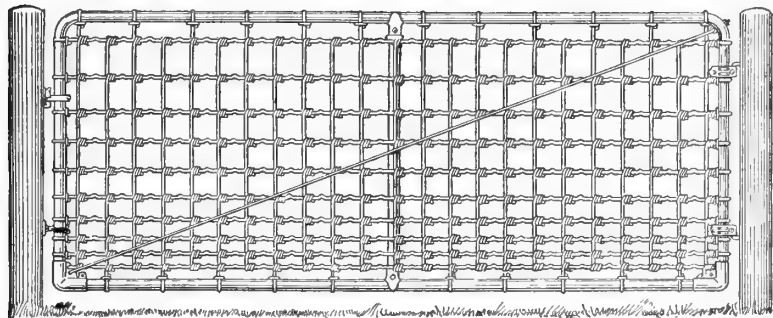
Width, Feet.	List Price.	Our Price.
3.....	\$3.80	\$2.28
3½.....	4.20	2.52
4.....	4.80	2.88



Cyclone Style F Walk Gate.



Universal Walk Gate.



STYLE A FARM GATES

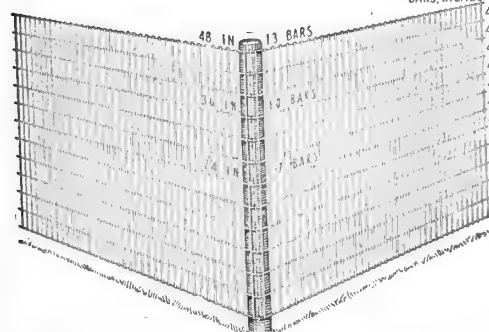
Frames are made of high carbon steel tubing 1½ in. outside diameter. Spacing is of heavy weight farm fence, with the uprights every six inches. Frames regularly painted black. Can be furnished galvanized at an additional cost. Unless otherwise ordered, painted frames will be shipped. Furnished complete with hinges and latch. Width means width of gateways. Factory makes allowance for hinges and latch.

Style A—Single Drive Gates.
36, 42, 48 or 54 Inches High.

Width, Feet.	List Price.	Our Price.
8.....	\$ 7.60	\$5.32
10.....	8.25	\$5.78
12.....	9.00	6.30
14.....	10.30	7.21
16.....	11.70	8.19

"PITTSBURGH PERFECT" LAWN FENCE

SPACING BETWEEN BARS, INCHES

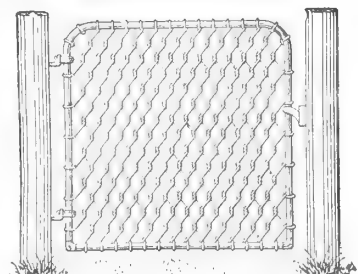


This close spacing makes it a very effective fence against small animals and fowls, and the uprights are so very close together that it is practically a non-climbable fence, as the spaces are not large enough for a foothold. Furnished in rolls of 100 and 150 lineal feet. Cut lengths at 10 per cent. advance.
No. 4813—48-in. high. List, per ft., \$.20; retail, per ft., \$.10
No. 3610—36-in. high. List, per ft., \$.16; retail, per ft., \$.08

A neat and effective Lawn Fence; also used extensively for Tennis and Baseball Back-stops, and for constructing Corn Cribs.
The strand wires are spaced evenly four inches apart from top to bottom, and there are 100 upright wires slightly less than two inches apart in every rod.

ECLIPSE GATES

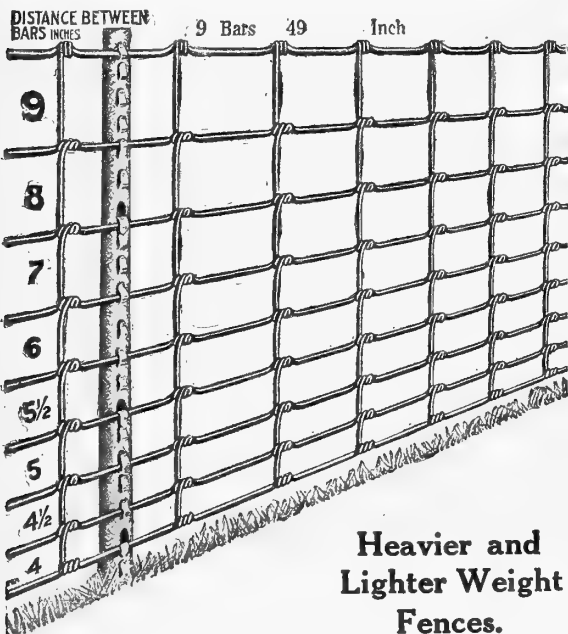
THE ECLIPSE WALK GATES are built of high-grade material in a substantial manner, and are covered with a diamond mesh fabric, tightly woven of galvanized wire. The character of the fabric is such that each wire acts as a truss, thoroughly bracing the gate on all sides and making it sag-proof.



	Height.		Height.	
	36, 42 or 48 in.		58 or 54 in.	
Width of Opening.	List Price.	Our Price.	List Price.	Our Price.
3 feet.....	\$3.40	\$2.40	\$3.80	\$2.70
3½ feet.....	3.80	2.70	4.20	2.95
4 feet.....	4.00	2.80	4.40	3.50
8 feet.....	7.50	5.25	8.30	5.85
10 feet.....	8.50	5.95	9.30	6.55
12 feet.....	9.60	6.75	10.40	7.30

U.S. and AMERICAN FIELD FENCES.

The manufacturers of these fences are constantly keeping abreast with the times. With their wonderful facilities they are able to offer the farmer more value in design than can be obtained elsewhere for the money. The styles shown here are carefully selected, based on our wide experience in these lines. Heavy wires and improved galvanizing methods all tend to make these fences more durable. With the exception of the close mesh hog fences, we are listing the improved U. S. style of fence. The features of the U. S. Fence are full gauge, hard, tough, springy steel wire. The stay of the U. S. Fence is one continuous wire from top to bottom, and is locked to the strand wires with a simple lock or knot, which grips the strand tight and will not allow slipping. The tension curve of the U. S. Fence is placed within the lock or knot. It is a real curve, mechanically formed. It is designed especially for great elasticity to take care of contraction and expansion due to hot and cold weather.

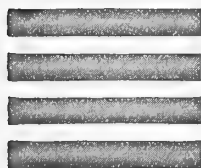


Top Bar, No. 9
Bottom Bar, No. 9
Intermediate Bars, No. 11
Stays, No. 11

Heavier and Lighter Weight Fences.

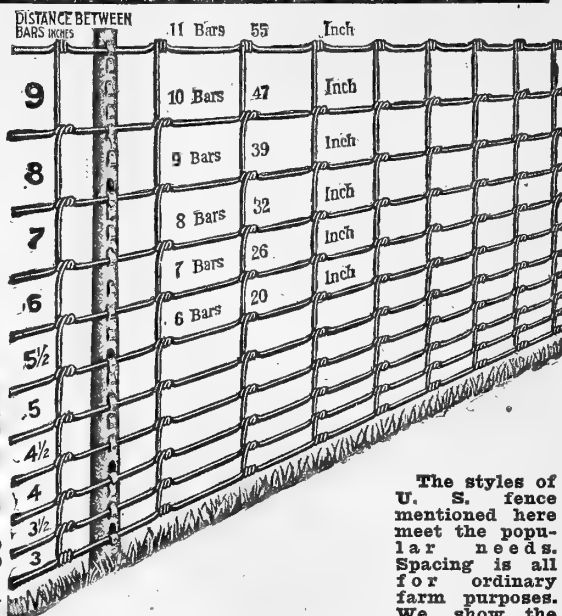
We show here illustration of all No. 9 fence. We can furnish any of the above fences made of all No. 9 wire where an extra heavy fence is desired. Of course this increases the price, but a great many practical people consider it the most economical fence in the long run. In regard to the lighter fences, will state that we find we sometimes are put in competition with manufacturers who seek for trade on a basis of price alone, who make fencing out of wire much lighter than our standard specifications. To compete with such manufacturers we are prepared to furnish U. S. fence lighter than the standard fences mentioned above, but we do not recommend the lighter weight. Information and prices in regard to heavier and lighter fences will be cheerfully given on application.

American Close Mesh Hog and Cattle Fence



Where a very close fence is wanted for hogs, we recommend this style. It is made with No. 10 top and bottom wires, No. 12 intermediate wires and No. 13 stay wires. It also makes an excellent barn-yard fence, as the spacing of the lower wires is close enough to turn small stock and poultry, with the exception of the smallest chickens.

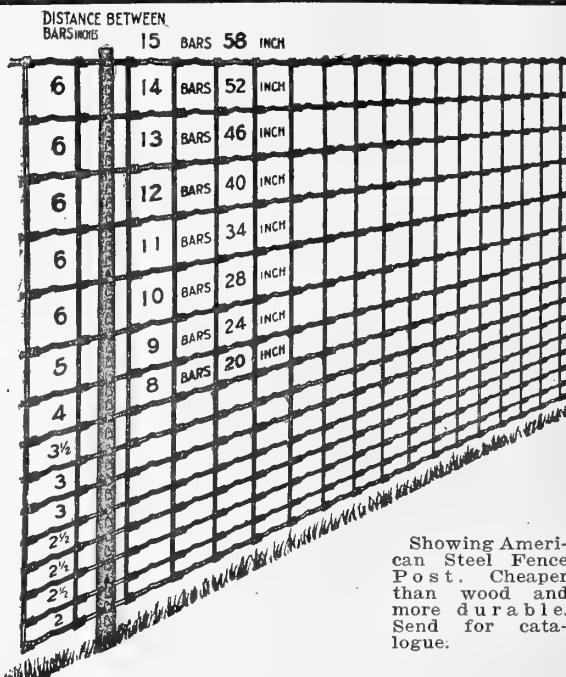
Design No.	Height in Inches	12-INCH STAYS		Retail Prices per Rod	6-INCH STAYS		Retail Prices Per Rod
		Approx. Weight Per Rod Pounds	List Prices per Rod		Approx. Weight Per Rod Pounds	List Prices per Rod	
1346	46	9.8	\$0.81	\$0.37	11.6	\$1.03	\$0.47
1240	40	8.6	.75	.34	10.6	.94	.43
1134	34	7.8	.68	.31	9.6	.86	.39
1028	28	7.1	.62	.28	8.6	.77	.35



The styles of U. S. fence mentioned here meet the popular needs. Spacing is all for ordinary farm purposes. We show the exact sizes of wire used. No. 9 Top and Bottom and No. 11 Stays and Intermediate. Furnished in 10- and 20-rod rolls.

Style No.	Height in Inches	12-INCH STAYS		Retail Prices Per Rod	6-INCH STAYS		Retail Prices Per Rod
		Approx. Weight Per Rod Pounds	List Price per Rod		Approx. Weight Per Rod Pounds	List Prices per Rod	
1155	55	11.8	\$0.95	\$0.43	15.9	\$1.24	\$0.59
1047	47	10.6	.85	.39	14.1	1.10	.50
939	39	9.4	.76	.35	12.4	.97	.44
832	32	8.3	.67	.31	10.8	.85	.39
726	26	7.2	.59	.27	9.3	.73	.33

While we hope to be able to maintain all through the season our published prices on galvanized wire fencing, at the same time the unsettled condition of the galvanized wire market makes it advisable for us to state here the prices are subject to change without notice.



Showing American Steel Fence Post. Cheaper than wood and more durable. Send for catalogue.

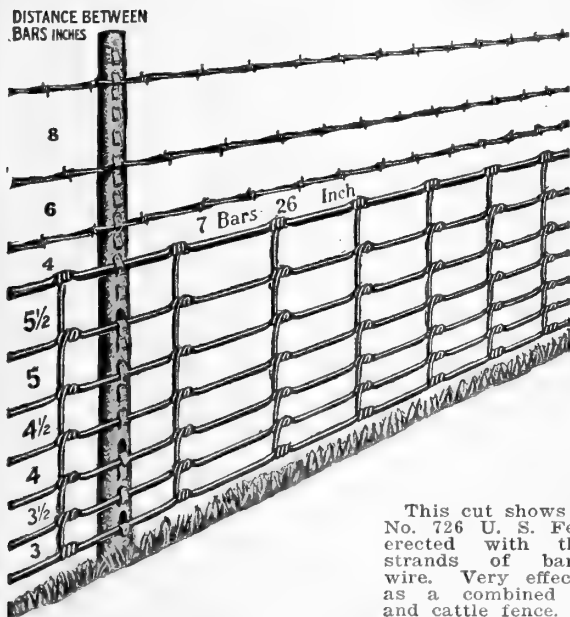
AMERICAN CLOSE MESH HOG FENCE

U. S. POULTRY AND GARDEN FENCE

The illustration at the right shows the U. S. Poultry and Garden Fence, and we also show below the illustration size of wires used in its construction. The U. S. Poultry Fence is built of the same grade of wire as is used in the U. S. Field Fence, but of lighter gauge and the same excellent wrap is used. It is an ideal fence against poultry and small animals. The spacing is graduated from 1½ inches at the bottom to 5 inches at the top, as shown by the illustration and the distance between the stays or uprights is 6 inches. We carry this fence in stock in the styles mentioned below. It is very extensively used as a protection for poultry yards, gardens and orchards. It meets the requirements; therefore it is a great favorite. Furnished regularly in rolls containing 10 rods or 165 lineal feet.

Style No.	Distance Between Stays	Height Inches	No. of Bars	Approx. Weight Per Rod	List Price Per Rod	Retail Price Per Rod
2158	6	58	21	12.5	\$1.19	\$0.54
2053	6	53	20	11.8	1.13	.51
1948	6	48	19	11.1	1.07	.49
1635	6	35	16	9.2	.89	.40
1324	6	24	13	7.4	.72	.33

On page 142 we show a line of lighter weight and very closely spaced poultry fences. Don't worry about your fence posts. Buy the American steel posts shown on page 143.



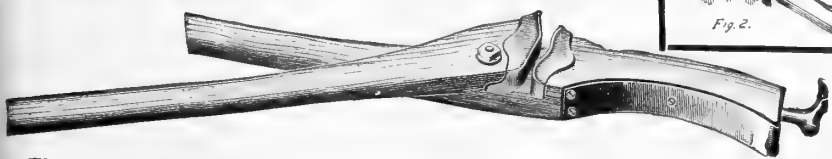
This cut shows the No. 726 U. S. Fence erected with three strands of barbed wire. Very effective as a combined hog and cattle fence.



WIRE STRETCHER
No. 1

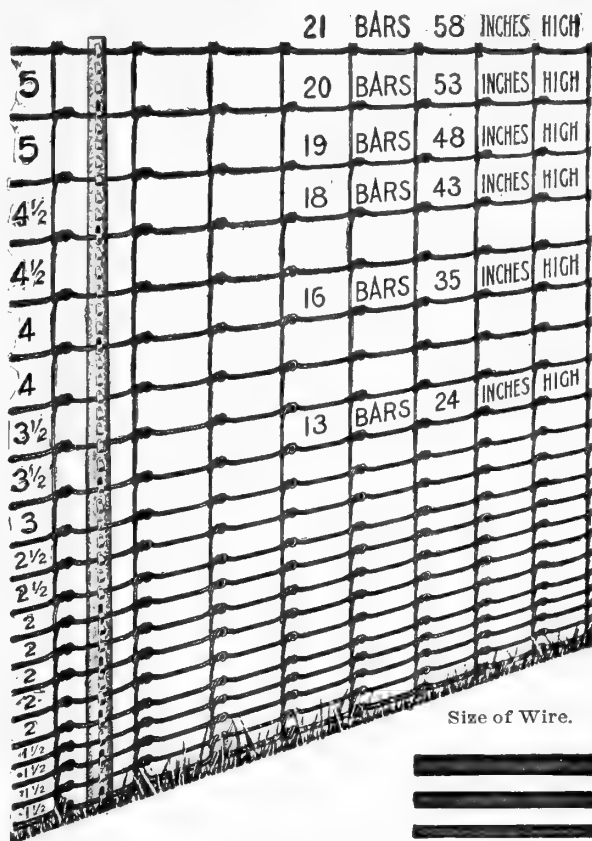
Price, 75c.

THE "NEVERSLIP" STRETCHER



The **Never Slip Stretcher** has no teeth to cut or injure wire. Simple and strong in construction. Has hickory handle and malleable jaw. One man operates it, and both hands are left free to drive staple. Price without staple puller, 75 cents; with staple puller, \$1.00.

See page 143 for American Galvanized Fence Posts.



Size of Wire.



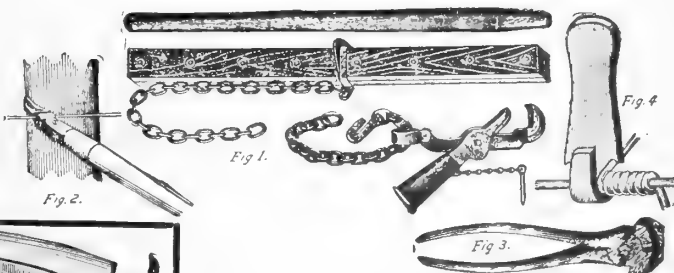
While the woven field fences are generally used, there is still considerable call for galvanized barb wire. The cut to the left shows how barbed wire is frequently used in combination with woven fencing.

We have 2-point and 5-inch Barb Wire and 4-point 4-inch Barb Wire. Prices on application.



Ribbon Wire, Twisted Two-Strand Wire, Plain Galvanized and Annealed Wire, Panel Wire. Prices on Application.

THE LOTT STRETCHER

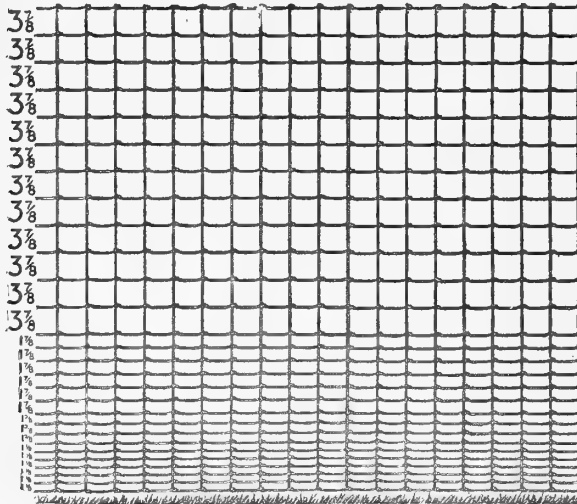


This stretcher is operated by a long lever, and can be used singly, pulling from centre of clamp, or in pairs pulling from top and bottom. All stretching chains are 8 feet in length. We do not furnish levers.

List Price, \$7.00; Our Special Price, \$5.60.

Fig. 2—Pittsburg Single Wire Stretcher. **List Price, \$1.25. Retail, 90 cents.**

Fig. 3—Pittsburg Fence Tool. **List Price, \$1.00; Retail, 90c.**
Fig. 4—Splicer, 10c. each.



BANNER POULTRY FENCE

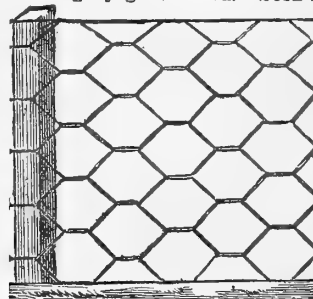
Banner Fence meets the demand for a closely woven fence heavier than the light poultry nettings. The spacing between the six line wires at bottom of fence is only 1½ inches and gradually increased to 3¾ inches at top, so the essential feature of a satisfactory poultry fence—closeness of mesh—is well taken care of in this fencing. The upright wires or stays run continuously across the fence and lock firmly around the intersecting line wires in a loop knot, forming a smooth, solid joint without any sharp, rough edges. Top and bottom wires No. 15; all other wires No. 17 gauge, hard steel, thoroughly galvanized. While designed especially to meet the urgent and growing demand for a thoroughly good poultry fence, the close mesh of the fabric, together with the wide range of heights, makes Banner Fence particularly desirable for enclosing not only Poultry and Rabbit yards, but for all other places where it is desirable to exclude the smaller and lighter destructive animals.

Style.	Height.	No. of Bars.
1624	24 inches	16
1936	36 inches	19
2248	48 inches	22
2560	60 inches	25
2872	72 inches	28

Price per 10-rod Roll.	
List, \$7.10	Our Price, \$2.84
List, 8.80	Our Price, 3.52
List, 10.50	Our Price, 4.20
List, 12.30	Our Price, 4.92
List, 14.00	Our Price, 5.60

DIAMOND MESH POULTRY NETTING

The wire we offer is No. 20, double twist, 2-inch mesh, thoroughly galvanized. Sold in bales of 150 running feet.



No.	In. Sq.		List Price	Retail Price
	Wide.	Feet.	Per Bale.	
Galv. After Weaving.				
20	12	150	\$3.37	\$.92
20	18	225	5.07	1.40
20	24	300	6.75	1.85
20	36	450	10.12	2.75
20	48	600	13.50	3.65
20	60	750	16.87	4.55
20	72	900	20.25	5.45
Galv. Before Weaving.				
20	12	150	3.37	.70
20	18	225	5.07	1.05
20	24	300	6.75	1.35
20	36	450	10.12	2.05
20	48	600	13.50	2.70
20	60	750	16.87	3.40
20	72	900	20.25	4.05

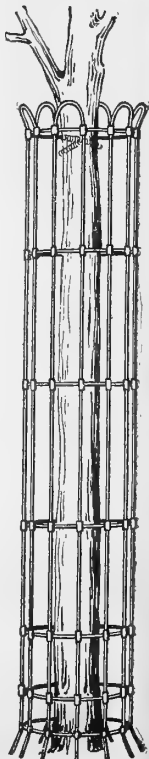
Price 1c. per square foot in less than bale lots. Staples for fastening, 10c. per pound. We also carry in stock a few sizes of 1-inch mesh, as follows:

No.	Inches wide.	Square feet.	List Price Per Bale.	Retail Price Per Bale.
20	24	300	\$16.50	\$4.45
20	36	450	24.75	6.65
20	48	600	33.00	8.90

CYCLONE TREE GUARDS

Made 6 feet high of heavy galvanized wire, in 9, 12 and 15-inch diameters. Ready for setting up by clasping the hooked ends. Furnished with spiral spring, which attaches to tree and prevents rubbing or bruising of the bark. Protects without shading or otherwise injuring the tree.

Height, inches.	Diameter, inches.	List Price, Per dozen.	Our Price, Per dozen.
72	9	\$15.00	\$1.00
72	12	17.50	1.15
72	15	20.00	1.25

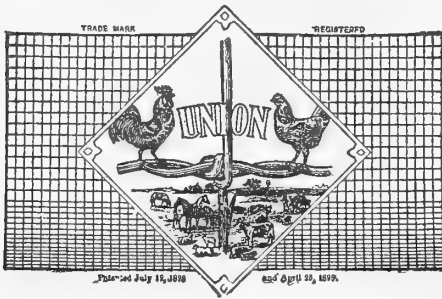


This fence is also used extensively by our leading parks and athletic associations for baseball and tennis backstops. Made of heavy steel wire of extra high quality and of the size shown by the illustration. Size of mesh is also shown by the illustration. The three-strand rope selvages contribute much to the strength of the fabric and give it a finished appearance. After being woven the fencing is given a heavy coating of pure zinc by special process to make it rust-proof for many years. This fence meets all the requirements of a perfect fence, being strong enough to turn large animals, close enough to turn most poultry, and is practically non-climbable. It is neat and durable. Put up in rolls of 165 lineal feet.

Height, inches.	List Price, per rod.	Our Price, Per rod.
24	\$2.00	\$1.20
36	3.00	1.80
48	4.00	2.40
60	5.00	3.00
72	6.00	3.60

UNION LOCK POULTRY FENCE

Square mesh construction makes top and bottom rails unnecessary and requires fewer posts; made of No. 19 and No. 20 wires; spacing at bottom 1¼ inches; uprights 3 inches apart; put up in rolls of 165 feet.



	List. Per roll.	Retail Per roll.	Retail when cut.
24 inches wide.....	\$5.60	\$2.55	2¼c. per running foot
36 inches wide.....	6.90	3.15	2¾c. per running foot
48 inches wide.....	8.30	3.75	3¼c. per running foot
60 inches wide.....	9.60	4.35	4c. per running foot
72 inches wide.....	10.80	5.00	4½c. per running foot
84 inches wide.....	12.30	5.60	5¼c. per running foot

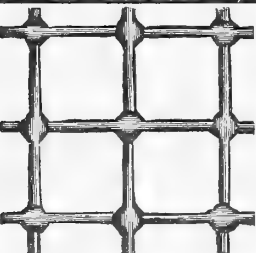
GALVANIZED STEEL WIRE CLOTH

Used largely in corn cribs to make them rat-proof; also for making sieves, grain fan screens, etc. Widths 24 to 48 inches.

2x2—3x3 mesh, sq. ft., 6c.; full rolls, 5¼c. sq. ft.; 4x4 mesh, sq. ft., 6½c.; full rolls, 5¾c. sq. ft.

The word mesh means number of meshes to the inch. (2x2 mesh, 2 to the inch; 4x4 mesh, 4 to the inch, etc.).

Special price in roll lots, 100 feet or more.



"COTTAGE" LAWN AND GARDEN FENCE



This Fencing
IS
STRONG ENOUGH
FOR
LARGE ANIMALS,
AND
Small ones cannot pass
THROUGH THE
Fine Meshes.

GALVANIZED STEEL FENCE POSTS

CHEAPER THAN WOOD, AND MORE DURABLE—GALVANIZED INSIDE AND OUT.

These posts are neat, strong, durable and easy to erect. They will give you much more and better service than can be expected of wood posts because all being alike in size and quality of material, you get benefit of every post in the fence from year to year, while wood posts rot and decay. The line posts are strong enough to hold up any wire fencing, and furnish all necessary resistance. The end and corner posts are so strong that they will maintain any wire fence made. They are made of high quality steel, heavily coated with zinc, inside and out. They are adapted to all conditions, and should be used wherever a good wire fence is desired, no matter how heavy the wire. To prove the durability of these posts, we point to the fact that they have been in service since 1898 in every section of the United States, and reliable reports indicate that the oldest posts are today apparently as good as when set.

BURNING THE FENCE LINE—It is simply impossible to clean up farms while the fence lines are growing a crop of weeds every year, distributing their seeds in all directions and forming a sure and safe haven and breeding place for all sorts of insect pests. Burning the fence line is the logical solution, and if you use American Steel Fence Posts you can burn the fence line at your pleasure.

PRICE LIST SUBJECT TO CHANGE WITHOUT NOTICE.

GAUGE AND DESIGN.

		Length in Feet.	Approximate Weight in lbs.	List Prices Per Post.	Our Price Per Post.
No. 16 Line Post		5	5.7	\$0.38	\$.31
No. 16 Line Post		6 1/2	7	.44	.36
No. 16 Line Post	Standard Weight Posts.	7	7.75	.49	.40
No. 16 Line Post		7 1/2	8.5	.53	.43
No. 16 Line Post		8	9.	.57	.46
No. 16 Line Post		9	10.5	.66	.53
No. 13 Line Post		5	8.	.48	.39
No. 13 Line Post		6 1/2	10.	.60	.48
No. 13 Line Post		7	11.5	.63	.55
No. 13 Line Post	Heavy Weight Posts.	7 1/2	12.25	.72	.58
No. 13 Line Post		8	13.25	.79	.64
No. 13 Line Post		9	15.	.89	.72
No. 13 Line Post		10	17.	1.00	.80
No. 10 End Post		11	19.29	1.15	.92
No. 10 End Post		7	51.	3.10	2.48
No. 10 End Post		8	59.	3.50	2.80
No. 10 End Post		9	67.	3.90	3.12
No. 10 End Post		10	119.	7.75	6.20
No. 10 End Post		11	122.	7.90	6.32
No. 10 Corner Post		7	75.	4.60	3.68
No. 10 Corner Post		8	86.	4.95	3.96
No. 10 Corner Post		9	97.	5.70	4.56
No. 10 Corner Post		10	195.	12.55	10.04
No. 10 Corner Post		11	197.	12.70	10.16
No. 10 Hitching Post		6 1/2	27.	2.00	1.60

Ball Tops for Line Posts	10c. each.
Ball Tops for End and Corner Posts	20c. each.
Driving Caps for Line Posts	10c. each.
Upper Collar for Hanging Gate on End Post	40c. each.
Lower Collar for Hanging Gate on End Post	40c. each.
Fig Ear Latch	40c. each.

CYCLONE CONSUMERS

The best way to dispose of your waste paper and rubbish is to burn it in a **CYCLONE CONSUMER**. Avoids danger and helps to keep the yard and lawn clean and free from litter. Being made of heavy steel wire, with removable cover, it serves as a strong and neat waste-basket.

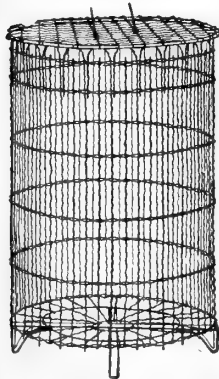
No. 1—20 in. diameter, 30 in. high.	List, \$3.00; Retail	\$2.40
No. 2—17 in. diameter, 25 in. high.	List, \$2.00; Retail	1.60
No. 3—14 in. diameter, 21 in. high.	List, \$1.80; Retail	1.44
No. 4—12 in. diameter, 18 in. high.	List, \$1.50; Retail	1.20

GALVANIZED STEEL ROW BOAT

This boat must not be confused with a great many of the inferior low-priced metal boats and canoes on the market. It is not in that class. The boat is made of No. 20 gauge high-grade galvanized sheets, has two air compartments and is braced with angle iron throughout, with angle iron rim around top. Has four oar locks but oars are not included in price of boat. It is furnished with two seats and each boat is provided with an open cypress floor. This boat is recommended by manufacturers as best and safest row boat on the market for all purposes. The boat has flat bottom making it difficult to upset and even when loaded it glides over the water lightly. Length over all 16 feet, width four feet, width in bottom of boat is thirty-four inches, height fifteen inches, shipping weight 240 pounds.

List Price, \$60.00. Our Special Price, \$40.00, F. O. B. Factory.

SEE PAGE 195 FOR FERRO ROW BOAT MOTOR.



NEW UNIVERSAL GARDEN TOOLS

MATTHEWS' *New Universal* GARDEN DRILL

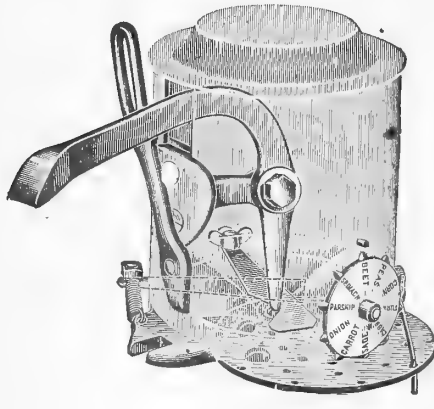
ONE OF THE STANDARD DRILLS OF AMERICA.

Simple in Construction. Neat in Design. Efficient in Operation. None Better Can Be Procured.

The indicator has the names of the various seeds plainly marked upon it. The DIAL has a separate hole for each kind of seed, which registers in the CENTER of the hole in the bottom of seed-box. The hole in the dial may be gauged to a nicety by means of the REGULATOR, held by a thumb-screw. To lead the seed to the central opening there is provided a CORRUGATED and shouldered bottom, which admits of dropping any quantity of seed, even to a SINGLE PAPER.

Price, \$7.50. Packed weight, 55 lbs.

The Seeding Device



PATENT SEED INDICATOR USED ON ALL GENUINE DRILLS.

Seeding can be regulated to exact quantity desired.



Mathews' *New Universal* Hill and Drill Seeder No. 16

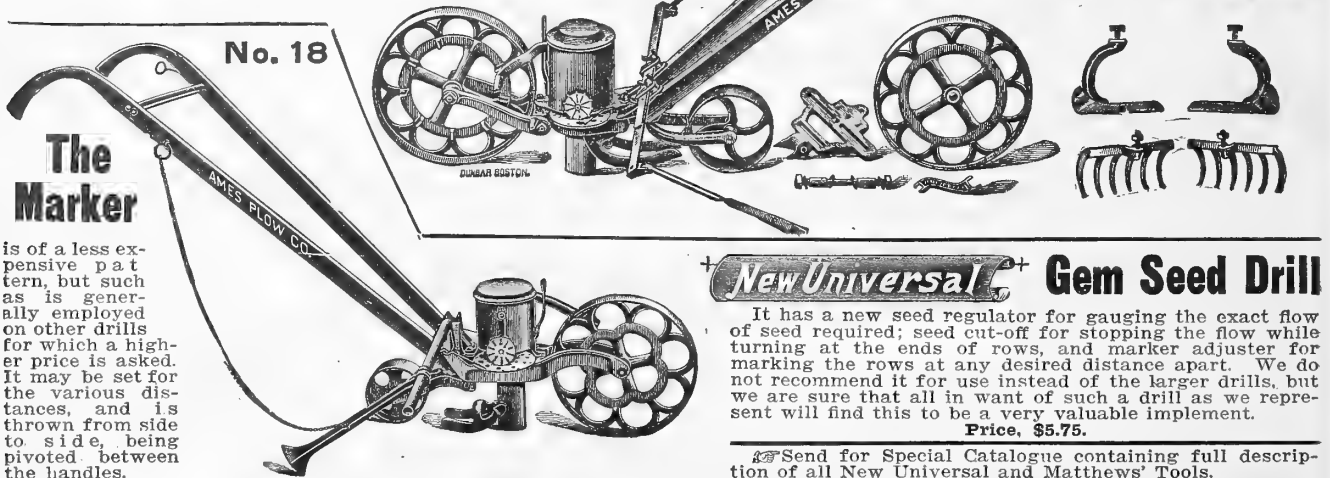
Is arranged so as to drop the seed continuously in drills or at a distance of 4, 8, 12, 16, 24 and 48 inches apart. The adjustment from drills to hills is made by one screw in attaching a brass cut-off to the agitator. The distance apart is regulated by the number of cogs on the driving wheel against which the agitator strikes. The seed cannot drop except when the hole in the bottom of seed-box is opened by the agitator striking a cog on the wheel, and it immediately closes again as the agitator drops. This saves seed, as no more need be dropped at a time than is desired, no matter what the distance may be. If this implement is wanted, be sure and order the "Hill and Drill Seeder," as the regular garden drill cannot be fitted with the attachments.

Price, \$8.25. Packed weight, 57 lbs.

Mathews' *New Universal* Constellation Seeder, Hoe, Cultivator, Plow, Rake and Marker No. 19

The two wheels are desirable when used as a cultivator or wheel hoe, as in this way the rows of young plants may be straddled and the cultivating done on both sides of the row at one passing. The special feature of this implement is that when used in straddle row cultivation there is no projection below the frame to interfere with plants. The attachments are—One (1) Pair Hoes, Five (5) Cultivator Teeth, One (1) Pair Rakes, One (1) Pair Plows

Price, \$9.50



Packed Weight, 70 lbs.

The Marker

is of a less expensive pattern, but such as is generally employed on other drills for which a higher price is asked. It may be set for the various distances, and is thrown from side to side, being pivoted between the handles.

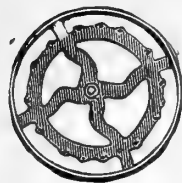
Packed weight, 40 lbs.

***New Universal* Gem Seed Drill**

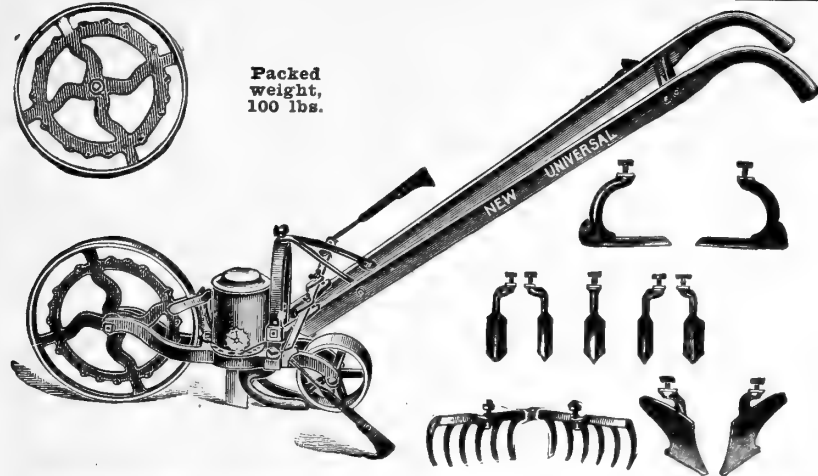
It has a new seed regulator for gauging the exact flow of seed required; seed cut-off for stopping the flow while turning at the ends of rows, and marker adjuster for marking the rows at any desired distance apart. We do not recommend it for use instead of the larger drills, but we are sure that all in want of such a drill as we represent will find this to be a very valuable implement.

Price, \$5.75.

Send for Special Catalogue containing full description of all New Universal and Matthews' Tools.



Packed weight, 100 lbs.



New Universal

Combination Hill and Drill Seeder

No. 22

Six Implements in One.

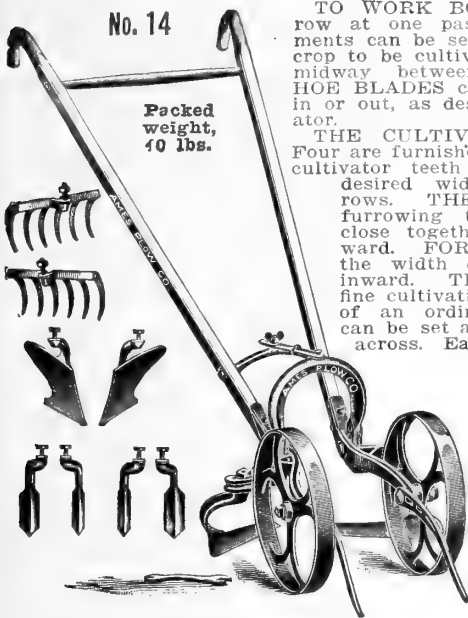
The Seeding Attachment will not only plant in drills, but will also plant in hills in distances varying from 4 to 48 inches. The Steel Arch is 20 inches in height; thus allows cultivation to that height when used in Straddle-Row Cultivation.

Complete with all attachments: Price, \$11.00.
No. 22 Seeder only: Price, \$8.75.

New Universal Hand Double Wheel Hoe, Cultivator, Plow and Rake

No. 14

Packed weight, 40 lbs.



TO WORK BOTH SIDES OF A row at one passing, the attachments can be set to suit width of crop to be cultivated, keeping row midway between wheels. THE HOE BLADES can be set to turn in or out, as desired by the operator.

THE CULTIVATOR TEETH.—Four are furnished with each. Two cultivator teeth can be used at desired width to mark out rows. THE PLOWS.—For furrowing they can be set close together and turn outward. FOR COVERING, set the width desired, and turn inward. THE RAKES.—For fine cultivation and other uses of an ordinary rake. They can be set angling or straight across. Easily adjustable for width or depth.

GUARDS are to prevent wheels from injuring large spreading THE LEAF foliage.

One Pair Hoes, 1 Pair Plows, 1 Pair Rakes, 1 Pair Narrow Cultivators, 1 Pair wide Cultivators, 1 Pair Vine Guards.

Specially designed for working both sides of the row at one passing. Price, \$6.00.

New Universal DOUBLE WHEEL HOE WITH HOE BLADES ONLY.

Price, \$4.00.

No. 15.

New Universal High Arch Expansion Wheel Hoe, Cultivator, Rake and Plow

No. 26.

This is a larger implement than the Double Wheel Hoe just described, and high enough to cultivate over 20-inch plants. Can be used as a One Wheel as well as a Two Wheel. Has 5 cultivator teeth instead of 4. Price, \$8.75.

New Universal Hand Single Wheel Hoe, Cultivator, Plow and Rake

No. 11.

As with the Double Wheel Hoe described, this can be used either between or astride the rows, although it is really intended for between-row cultivation. For straddle cultivation the wheel can be set to one side, so as to bring the row of young plants under center of frame. Later cultivation must be done between rows. The attachments are: 1 Pair Hoes, 1 Pair Rakes, 5 Cultivator Teeth, 1 Vine or Leaf Guard, 1 Pair Plows. Price, \$5.25.

New Universal Wheel Plow

Packed weight, 19 lbs.



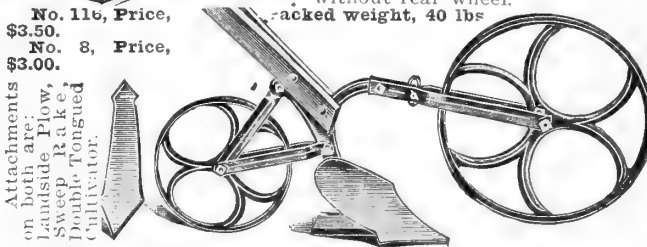
No. 10—Wheel Plow only..... \$2.10
No. 112—Same with all attachments shown..... 2.50

New Universal GARDEN PLOW AND ATTACHMENTS.

No. 116—With wheel front and rear gives perfect steadiness and regulates exact depth.

No. 8—Same as No. 116, but without rear wheel.

Packed weight, 40 lbs



No. 116, Price, \$3.50.
No. 8, Price, \$3.00.

Attachments on both are: Landside Plow, Sweep Rake, Double Tongued Cultivator.

New Universal "FLIER" Hand Single Wheel Hoe and Plow

Price, \$4.50.

Packed weight, 28 lbs.

No. 12.



This implement is same as our regular Single Wheel Hoe, but at this price fewer attachments are furnished. They are: 1 Pair Hoes, 3 Cultivator Teeth, 1 Large Plow.

New Universal HAND SINGLE WHEEL HOE

No. 13.

With Hoe Blades Only: Price, \$3.00.

The Baltimore Single Wheel Garden Cultivator

Packed weight,
31 lbs.

The Baltimore Single-wheel Garden Cultivator is very strong, neat and compact.



This Cultivator has an entirely new arrangement of frame which is strong, neat and compact, and with the aid of the different attachments can be used for hilling, furrowing or covering. The hilling attachments or weed cutters can be arranged to hoe in or out and to or from the plants, and can be set at any angle desired. Wheel and handles are both adjustable. Price, without rakes, \$4.25. With rakes, \$4.75.

No. 1 Gritco Garden Plow

Packed weight,
23 lbs.

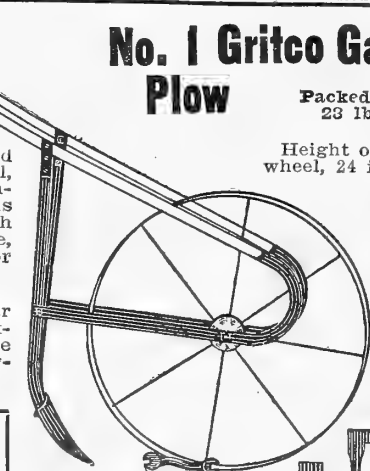
Height of
wheel, 24 ins.

Is constructed entirely of steel, except cross handle bar, and is equipped with shovel, calf-tongue, weeder, cultivator and mould-board.

Price, \$2.75.

No. 2 is similar to No. 1 above, except handles are wood, curved plow-handle style.

Price, \$2.75.



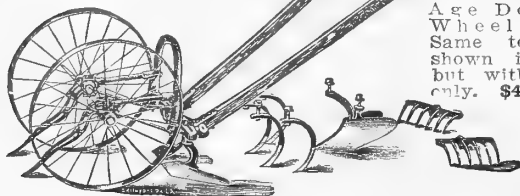
FIVE-TOOTH WEEDER ATTACHMENT.

Can be attached to any of the Garden Plows.
Price, 75c. each.



IRON AGE Double Wheel Hoe

No. 1. As shown in cut.
Price, \$7.00.



No. 3 Iron Age Double Wheel Hoe Same tool as shown in cut, but with hoes only. \$4.25.

Baltimore Double Wheel Garden Cultivator

The Baltimore Double-wheel Garden Cultivator is one of the strongest and most durable on the market.



Packed weight,
38 lbs.

This Cultivator has a new device for expanding and contracting, which permits the operator to set the machine instantly to any desired width. It is furnished with various attachments used for harrowing, furrowing and covering. Price, without rakes, \$5.50. Price, with rakes, \$6.00.

Baltimore "RIVAL" Garden Plow Complete

Handles can be raised or lowered.
Price, \$3.00.

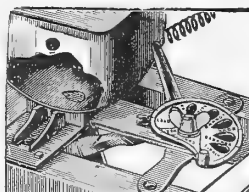
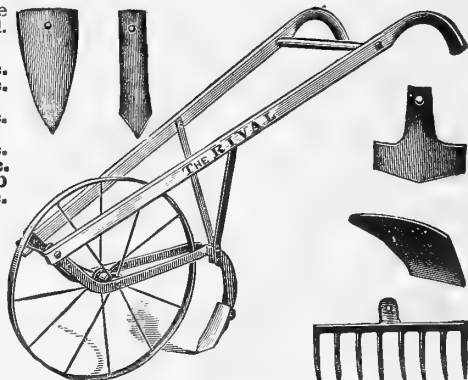
Extra Mould, 30c.
" Sweep, 30c.
" Large Blade, 25c.
" Bull Tongue, 20c.
" Rake, 25c.
" Wheel, \$1.00
" Weeder, 30c.

Handles, per pair... 80c.

Handle Braces, per pair... 30c.

Main Frame, each... \$1.30

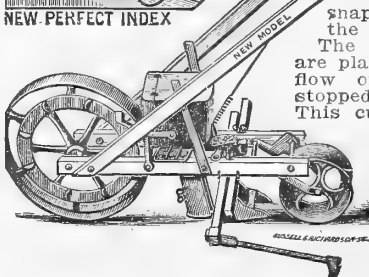
Packed weight,
23 lbs.



NEW PERFECT INDEX

New Model Seed Drill

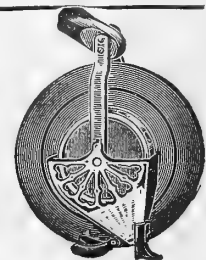
The Seeder Adjustment in the New Model is accomplished by use of a slide with a pear-shaped opening passing under the bottom of seed reservoir. The names of principal seeds are plainly shown on index. The flow of seed can be instantly stopped by a swinging cut-off. This cut-off prevents all loss of seed. Price, \$8.00.



Eureka Seeder

Have You a Hot-Bed?

It is the only machine suited to sow in a hot-bed. Sows up close to the sides in very straight rows. Sows the smallest packet of seeds as well as a large bulk. Price, \$1.00.



IRON AGE Single Wheel Hoe

Is a steady, strong, light : easy-running tool, with attachments. No. 20. Price, \$6.00.

GENUINE FARMERS' FRIEND PLOW

**PRICES
GENUINE
FARMERS'
FRIEND
PLOW.**

No. 1/2.....	\$2.20	No. 8 R. and L., with	
No. 5.....	2.80	rod.....	\$6.25
No. 7 R.....	4.40	No. 9 R. and L., with	
No. 7 L.....	4.70	clevis.....	5.55
No. 7 1/2 R.....	4.70*	No. 1 Hillside.....	4.20
No. 8 R. and L., with		No. 2 Hillside.....	5.45
clevis.....	5.65	No. 3 Hillside.....	5.25
Plain Castings, per lb., 5c.		Polished Castings, lb., 6c.	

"BOY" DIXIE PLOW	
"Boy" Dixie.....	\$2.20
No. X.....	2.65
No. I.....	2.85
No. II.....	4.50
No. 2.....	5.85
Plain Castings, per lb., 5c.	

GIRL CHAMPION PLOW	
No. "Girl".....	\$3.35
No. A.....	3.65
Nos. AA and B.....	3.75
Castings, per lb., for	
"Boy," Dixie and "Girl"	
Champion, Plain, 5c.; Polished, 6c.	

MINOR & HORTON HIGH STANDARD PLOWS			
No. 18..	\$3.00	No. 18½..	\$3.25
No. 19..	3.50	No. 19½..	4.75
			Plain Castings, lb., 5c.
			Polished Castings, lb., 6c.

WHITE'S CLIPPER PLOW

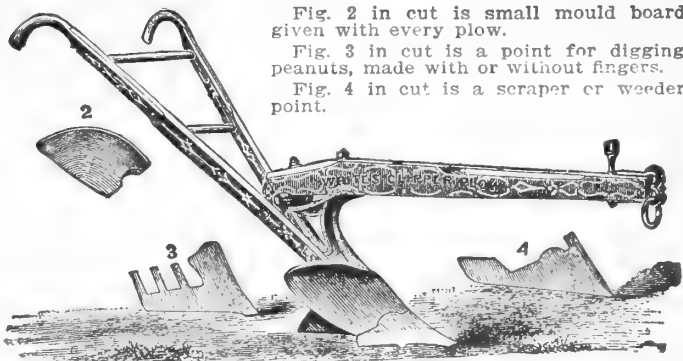


Fig. 2 in cut is small mould board given with every plow.

Fig. 3 in cut is a point for digging peanuts, made with or without fingers.

Fig. 4 in cut is a scraper or weeder point.

Prices Clipper Plow and Extras, Polished and Blue

No. Boy Junior, Cast, One-Horse.....	\$3.00
No. Boy, Cast, One-Horse.....	3.00
No. 1 and 2, Cast, One-Horse.....	3.25
No. 2 1/2 and 3, Cast, One-Horse.....	3.50
No. 7, 8 and 11, Two-Horse.....	5.25
No. 12, Cast, Two-Horse.....	5.50
Clipper Cast Point for No. 12 Steel Mouldboard.....	.25
Clipper Steel Point, No. 12.....	.60
Clipper Steel Mouldboard, No. 12.....	2.00
Cast Point for No. 2 Clipper Steel and Cast Plow.....	.15

BRINLY SUBSOIL STEEL PLOW



Prices:

No. 0.....	\$5.00
No. 3.....	7.50
Extras for above:	
Gauge Shoe.....	\$1.50
Steel Points, No. 0, 60c.	
No. 3.....	\$1.00

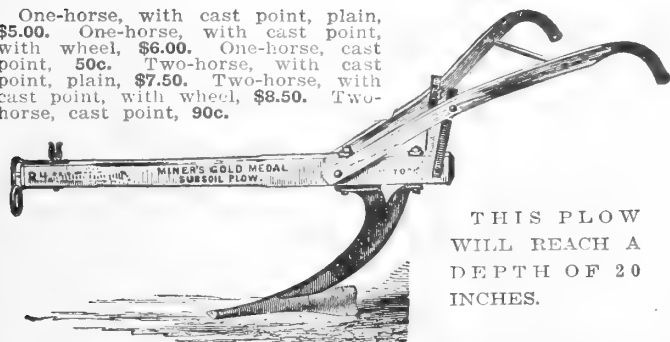
Weight, No. 0, 36 lbs.; No. 3, 52 lbs.

These Plows are made of best material throughout. The malleable iron uprights are unbreakable.

The Mole-shaped Duck-Bill Steel Points make the Plows very light draft. No. 0 is a One-Horse Plow, and the No. 3 is a Two-Horse Plow.

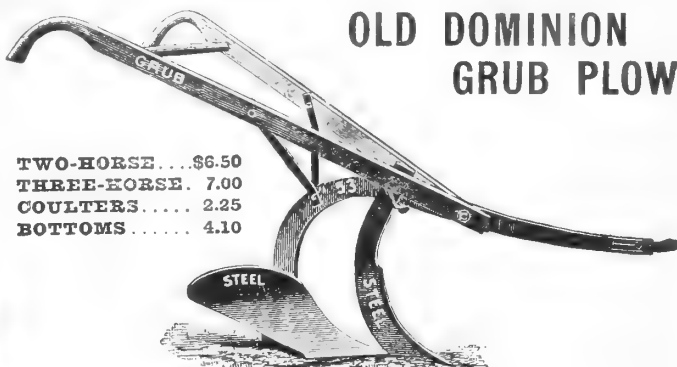
GOLD MEDAL SUBSOIL PLOW

One-horse, with cast point, plain, \$5.00. One-horse, with cast point, with wheel, \$6.00. One-horse, cast point, 50c. Two-horse, with cast point, plain, \$7.50. Two-horse, with cast point, with wheel, \$8.50. Two-horse, cast point, 90c.



THIS PLOW WILL REACH A DEPTH OF 20 INCHES.

OLD DOMINION GRUB PLOW



TWO-HORSE.....	\$6.50
THREE-HORSE.....	7.00
COULTERS.....	2.25
BOTTOMS.....	4.10

It is peculiarly adapted to newly cleared ground that is encumbered with growth of hazel or other bushes. All wearing parts are of best steel, and it is so strongly built that it will withstand the hardest usage. It is the favorite plow of its class. It is built in right hand only, and cuts about 7 inches.

HAMPTON CAST PLOW



EXTRAS.

Fig. 7—Cutter or sod plant point...60c.

Fig. 8—Potato-digging attachment...90c.

Fig. 6—Double mould.....\$2.50

Castings on all Hampton Plows 5c. lb.

HAMPTON No. 1 C PLOW.

With every Hampton No. 1 C Plow is sent three extra moulds and one extra share and wrench. Price, \$4.50.

HAMPTON BOY PLOW.

Price with truck and mouldboard, wrench and point, \$3.00.

HAMPTON PLOW, No. 1 REGULAR.

This style is similar to the Boy, but larger. Attachments are: Truck mouldboard, point and wrench. Price, \$3.50.

HAMPTON PLOW, No. 5.

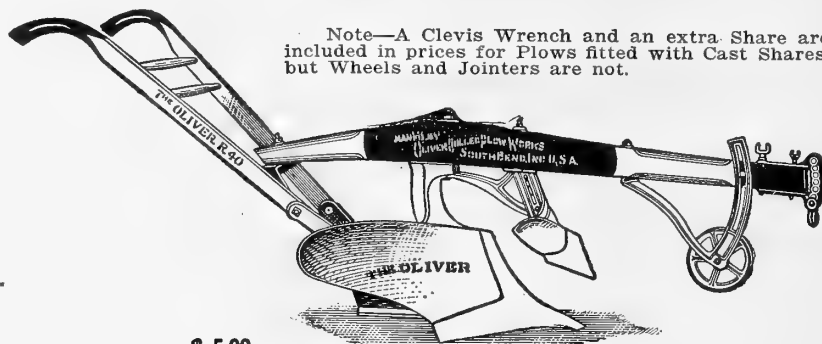
This is a medium two-horse plow, very light draft, and scours thoroughly. Front wheel and jointers furnished when desired extra. Price, plain plow, \$6.00.

GENUINE OLIVER PLOWS

AND GENUINE OLIVER REPAIRS

Don't forget to look for the **OLIVER TRADE MARK** on all **OLIVER** goods; none genuine without it.

In ordering Oliver Chilled Plows, state whether Wood or Steel Beam, and Right or Left Hand.

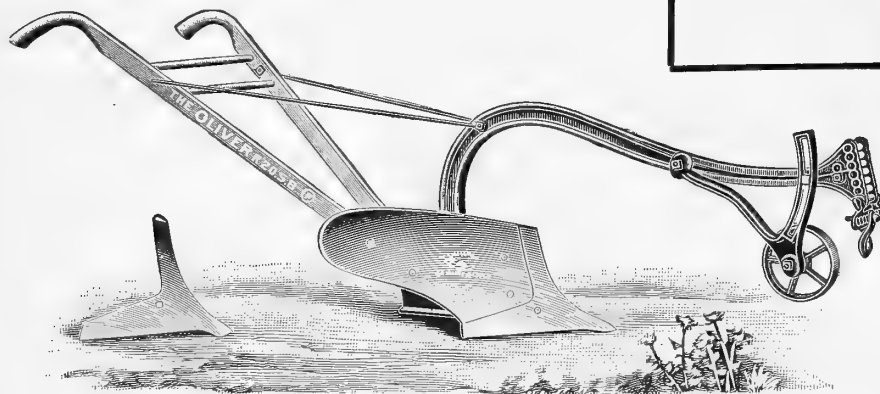


Note—A Clevis Wrench and an extra Share are included in prices for Plows fitted with Cast Shares, but Wheels and Jointers are not.

WOOD BEAM.

Prices.

Nos. A-1 and A-2, right hand.....	\$ 5.00
No. B-N, right hand.....	7.25
No. 10-N, right and left hand.....	8.00
No. B-Vineyard, right hand.....	9.00
No. 13-N, right hand.....	9.50
No. 19-N, right and left hand.....	10.00
No. 20-N, right and left hand.....	10.50
No. E-1-N, right and left hand.....	12.00
Nos. 40-N and 40-X-N, right and left hand.....	12.00
No. 40-XX, left hand.....	12.50

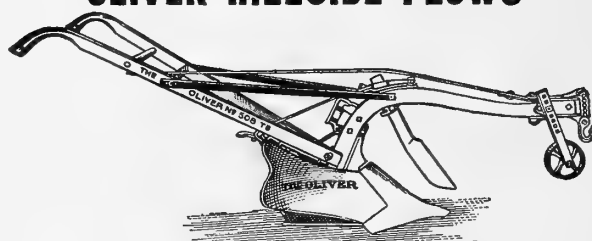


STEEL BEAM.

Prices.

Goober, R. H. only, capacity 4x7 in.....	\$ 5.50
Nos. A-1 and A-2, right hand.....	6.00
No. B-N, right hand.....	8.00
No. 10-N, right and left hand.....	9.00
No. 13-N, right and left hand.....	10.25
No. 19-N, right and left hand.....	11.00
No. 20-N, right and left hand.....	11.50
Nos. 40-N and 40-X-N, right and left hand.....	12.00
No. 83-N, right and left hand.....	11.00
No. 84-N, right and left hand.....	11.50
No. 88-N, right and left hand.....	12.50
No. 22, Chilled, Iron Beam, right and left hand.....	13.00
No. 3-X, Chilled, Iron Beam, right and left hand.....	10.00
No. 1, Road and Grading Plow, all steel, with Standing Coulter and Gauge Iron or Wheel, right hand only.....	35.00
The Oliver Subsoiler, best of its kind, with Wheel.....	14.50

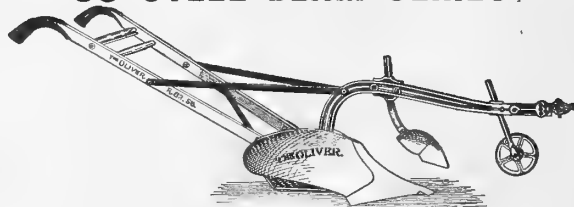
OLIVER HILLSIDE PLOWS



Prices HILLSIDE PLOWS:

No. 52, Steel Mouldboard, Chilled Share, Wood Beam, One Horse.....	\$11.00
No. 53½, Chilled Mouldboard, Chilled Share, Two-Horse.....	10.00
No. 57, Steel Mouldboard, Chilled Share, Wood Beam, Two-Horse.....	13.50
No. 524, Iron Beam, Chilled Mouldboard, Chilled Share, Shifting Clevis, Two-Horse.....	11.50
No. 508, Chilled Mouldboard Chilled Share, Steel Beam, Shifting Clevis, Light, Two-Horse.....	13.75
No. 509, Chilled Mouldboard, Chilled Share, Steel Beam, Shifting Clevis, Heavy, Two-Horse.....	14.25

83 STEEL BEAM SERIES



The No. 83 Series is not so old as other members of the Oliver family, but their success has long since been assured, and they have become some of our most popular plows. There is no field in which they cannot be put to work with a feeling of confidence. The superior turning qualities of the mouldboard, the keen pointed, high share and the firm construction make them especially adaptable to sandy, gravelly or stony soils. They are capable of a clean, straight furrow, and are always at the will of the plowman.

The chilled landsides, which are straight, are of double flange style.

MOULDBOARDS.

No.	No.	
A-1 & A-2	83	\$3.00
B. & B. Vin.	84	3.25
10-0	88	3.25
13 & 13 Vin.	89	3.25
19	98	3.00
20	99	3.25
22	119	2.75
40	120	3.00
40 XX	140	3.25
E-0, E-1		3.25

LANDSIDES.

No.	No.	
A	83	\$.85
B. & B. Vin.	84	.85
10	88	.85
13 & 13 Vin.	89	.85
19	98	.85
20	99	.85
22	119	.85
3 X	120	.85
40 & 40 XX	140	.85

HANDLE BRACES.

No. A	\$.30
No. B-10-13 Vineyard, B.	
Vin.	.35
All other Handle Braces	.60

WOOD BEAMS.

No. A-B-B Vineyard and 10	\$1.50
No. 40 XX	2.25
All other numbers, Wood	1.75
No. 22, Iron	4.25

STEEL BEAMS.

No. Vineyard	\$3.00
Nos. A, B, 10, 13 and Goober	3.50
Nos. 83, 84	3.50
Nos. 19, 20 and 88	4.00
No. 40	4.50

WOOD BEAM CLEEVES.

Marked "A," for One-Horse Plows, Wood Beam	\$.20
Marked "B," for Two-Horse Plows, Wood Beam	.30
Marked "D," for Three-Horse Plows	.50
Shackles, Twisted	.10
Wrenches	.10c., 15c. and .20
Guide Pins	.05
Shackle Pins	.05
Links, Two-Horse	.05
Rings, One-Horse	.05

IRON AND STEEL BEAM CLEEVES.

Marked "2," for B, 10 and 13 Plows	\$.60
Marked "3," for 19 and 20 Plows	.60
Marked "4," for 40 Plows	.75

HANGING COULTERS.

All Numbers, complete two-horse, except 7-L and 3-X	\$2.00
Holders, same as for jointers	1.00

STANDARDS.

No.	No.	
A	83	\$1.35
B	84	1.65
B. Vin.	88	2.25
10	89	2.50
13	88	2.50
19	119	2.75
40	120	2.75
40	140	2.75

HANDLES.

Per Pair and Single.

All numbers, per pair, loose	\$1.10
All numbers, single, each	.55
Rounds, per pair	.10
L. S. Handle Plates	.10

In ordering handles, state whether for wood or steel beam plows.

Complete—Per Set.

No. A-B-10-0	\$1.35
No. 22, 83, 84, 88 complete	1.75
No. 13, complete	1.50
No. B Vineyard	2.00
No. 98-99-119-120 and 140	1.85
No. 113	1.60
No. 19-20-E, 40 and 40 XX	1.75

SHARES.

Numbers.	Solid Cutter Shares.	Solid Plain Shares.	Cutter Oliver Slip Nose Shares.	Plain Oliver Slip Nose Shares.	Chilled Reversible Wings.	Chilled Reversible Slips.
A	22c.	20c.	25c.	25c.	10c.	8c.
B	25c.	22c.	28c.	28c.	10c.	10c.
B Vin	25c.	22c.	28c.	28c.	10c.	10c.
10-0	25c.	20c.	35c.	35c.	10c.	10c.
13	30c.	25c.	40c.	40c.	10c.	10c.
19	30c.	25c.	40c.	40c.	10c.	10c.
20	35c.	30c.	45c.	45c.	10c.	10c.
22	55c.	50c.	55c.	55c.	10c.	10c.
3-X	40c.	35c.	45c.	45c.	10c.	10c.
40	40c.	35c.	45c.	45c.	10c.	10c.
40-xx	50c.	45c.	55c.	55c.	10c.	10c.
E	40c.	35c.	45c.	45c.	10c.	10c.
83	50c.	45c.	55c.	55c.	10c.	10c.
84	50c.	45c.	55c.	55c.	10c.	10c.
88	50c.	45c.	55c.	55c.	10c.	10c.
98	55c.	50c.	60c.	60c.	10c.	10c.
99	55c.	50c.	60c.	60c.	10c.	10c.
119	45c.	40c.	50c.	50c.	10c.	10c.
120	45c.	40c.	50c.	50c.	10c.	10c.
140	45c.	40c.	50c.	50c.	10c.	10c.

ROLLING COULTERS.

11-in., for one-horse plows, Complete	\$2.75
13-in., for two or three-horse plows, complete	3.00

JOINTERS.

Decidedly the most important of all plow attachments, and can be used on most of our plows. The plowman who once uses a jointer will never want to do without it.

No. D—Chilled, for one-horse plows	\$1.50
No. 2—For two and three-horse plows	2.00
Jointer Points, chilled, all numbers	.15
Jointer Mouldboards	.35
One-horse Jointer Holders	.75
Two-horse Jointer Holders	1.00
One-horse Jointer Standards	.50
Two-horse Jointer Standards	.75

NOTE.—In ordering, say whether for wood or steel beam, right or left hand plows.

COMBINATION PLOW REPAIRS.

Numbers.	Mould-board Lugs.	Handle Lugs.	Mould-board and Landslide Braces.	Shins.	Levers.	Springs.	Landslide Plates.
98	20c.	20c.	50c.	25c.	25c.	5c.	5c.
99	20c.	20c.	50c.	25c.	25c.	5c.	5c.
119	20c.	20c.	40c.	20c.	25c.	5c.	5c.
120	20c.	20c.	40c.	20c.	25c.	5c.	5c.
140	20c.	20c.	40c.	20c.	25c.	5c.	5c.
3X	20c.	20c.	40c.	20c.	25c.	5c.	5c.

HILLSIDE PLOW REPAIRS.

Plow Nos.	Chilled Mould-board.	Steel Mouldboard	Standards.	Landsides.	Chilled Shares.	Set Handles.	Wood Beams.	Wood Beam Clevises.	Wrenches.	Wheels.	Jointers.
52	\$2.75	\$2.75	\$3.00	.65	.50	\$1.75	\$1.50	\$2.20	.15	.75	
53 1/2	\$2.25	2.75	2.75	.75	.40	1.75	1.50	.75	.20	1.00	
57	\$2.25	4.00	3.25	.75	.55	2.00	1.50	.35	.20	1.00	\$2.00
58	2.50			.60	.60	1.25			.20	1.00	
508	2.75	4.75	2.50	.75	.55	2.00			.20	1.00	
509	3.00	5.00	2.50	.75	.55	2.00			.20	1.00	
524	3.00	5.00		.75	.55	1.75			.20	1.00	

BOLTS.

For shares, mouldboards and landslides, jointer and coulters standard No. 5, end of handle brace, each	\$.03
For jointer and coulters holder, No. 6, wheel standards, straight, end of beam, wheel hub, No. 14-A clevis bolts, Nos. 20 and 40 steel beam and landside bolts. No. 99 S. B. jointer holder bolts, each	.05
For all standards and beams, spreading bottom of handles, Nos. 140 and 125 shin bolts, No. 40 S. B. jointer holder to block bolt, steel set-screws, all sizes, No. 99 S. B. standard bolts, 9-16x2 3/4, each	.07
Wheel hook bolts	.10

Cast Washers Are Not Included in Prices for Bolts.

PRICES FOR REPAIRS FOR ROLAND CHILLED PLOWS

Numbers.	No. on Slip Nose.	Mould-boards.	Landsides.	Standard.	Solid share.	Slip shares.	Slip nose.	Cutter.
E4 & E3	3.25	.85	2.75	.40	.50	.10	.25	
23 D	3.00	.85	2.75	.35	.45	.10	.25	
D3 & C3	3.00	.85	2.50	.30	.40	.10	.25	
D4 C	2.75	.85	2.50	.30	.40	.10	.25	
13 A	2.25	.75	2.25	.30	.40	.10	.20	
B3 X	1.85	.60	1.65	.25	.30	.10		
A3 X	1.35	.45	1.35	.20	.30	.10		

CLEEVES.

Nos. A3, B3 and 13	\$.20
All other numbers, 2-horse	.30
Three-horse	.50
Shackles	.10

HANDLES.

Nos. A3, B3 and 13, complete, per set	1.35
All other numbers, complete, per set	1.75
Single Handles, each, all numbers	.55
Rounds, per pair	.10

HANDLE BRACES.

No. A3	.25
Nos. B3 and 13	.30
All other numbers	.50

WRENCHES.

Wrenches	\$.15
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JOINTERS.

Two and three-horse	2.00
Holders	1.00
Standards	.75
Mouldboards	.40
Points	.15

WHEELS.

Complete	1.00
Standards	.50
Wheel, only	.50
Wheel, axle	.25

BOLTS.

For Mouldboards, Landsides, Jointer, Coulters Standards, End or Handle Brace	.03
For Wheel Arm (hook), Wheel through Beam Side, Rolling Coulters Axle, Back End of Beam, Jointer, and Coulters Holder (fronts) and Wheel Hubs	.07
For spreading bottoms of Handles	.10
For Standard through Beam	.10

WHEELS

Straight standard, one-horse, complete	\$.75
Brace, standard, two-horse, complete	1.00
Standards, one-horse, straight	.50
Standards, two-horse, all kinds	.40
Wheels only, one-horse	.40
Wheels only, two-horse	.50
Hubs	.10
Center pins or hub bolts	.03

NOTE.—In ordering wheels, say if for right or left hand wood or steel beam plows.

PLOW

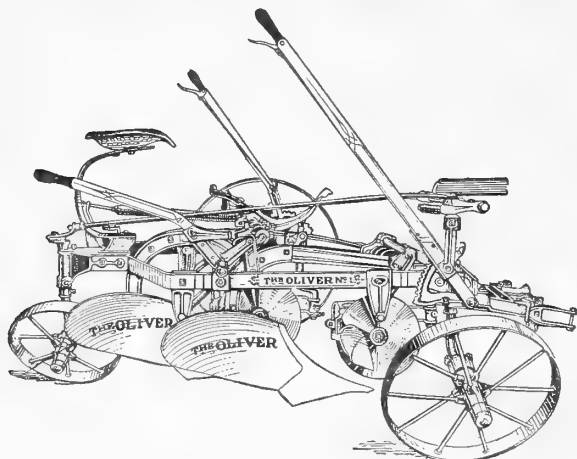


BOLTS

Length.	List %	Retail Each.	List %	Retail Each.
1 1/4	\$2.00	3c.	\$3.50	3c.
1 1/2	2.10	3c.	3.70	3c.
1 3/4	2.20	3c.	3.90	3c.
2	2.30	3c.	4.10	3c.
2 1/4	2.40	3c.	4.30	3c.
2 1/2	2.50	3c.	4.50	3c.
2 3/4	2.60	4c.	4.70	4c.
3	2.70	4c.	4.90	4c.
3 1/4	2.80	4c.	5.10	4c.
3 1/2	2.90	4c.	5.30	4c.
3 3/4	3.00	4c.	5.50	4c.
4	3.10	4c.	5.70	4c.

For Carriage and Machine Bolts, see page 221.

OLIVER NO. 1 GANG PLOW



The beams are landed at an angle to the furrow to provide a center draft. This construction distributes the strain evenly along both beams and entitles the plow to the merited and distinguishing name of "The Center Draft Gang Plow." It gives a natural draft and makes effective every ounce of mental in the beams.

The same good reasoning prevailed over other features of the plow. It was realized that constant passing of gritty soil over the plow bottom would necessarily wear, but to overcome this to a great degree the plow bottom has been prepared with shapes that offer a minimum amount of resistance. It plows a uniform depth in uneven ground.

Is raised or lowered with little or no exertion. Is adapted to any soil and every condition of plowing.

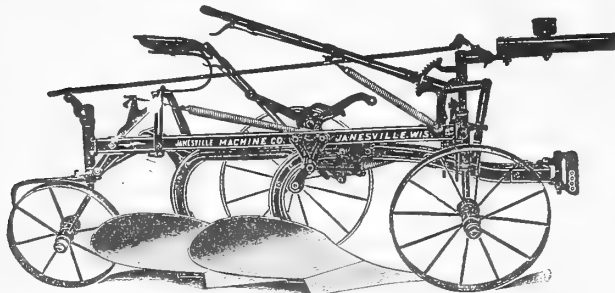
Turns to the right or left while plow bottoms are in ground. Can be handled as easily as a wagon. Is light in draft and perfect in work. In opening land a square and level furrow is turned.

Wheels are large and the plow runs steadier in consequence. Is fitted with dust and sand-proof boxes and caps. Plows two to ten inches in depth as desired at will of operator.

No. 1—Gang Plow, Steel or Chilled Mouldboard, Chilled Shares, Rolling Coulter, Weed Hooks, Four-horse Evenner and Tongue. List Price, \$86.00; Our Special Price, \$64.50.

No. 1—Gang Plow, same as above, but with Jointers instead of Rolling Coulter. List Price, \$86.00; Our Special Price, \$64.50.

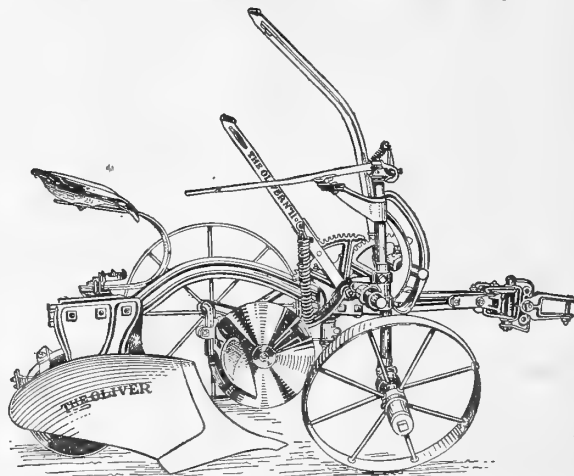
JANESVILLE GANG PLOW NO. 68



The fact that the Janesville bottoms are hung on a single bale or crank, perfectly balanced by two springs and controlled by an oscillating connection in the rear, makes them almost absolutely independent of the frame. This freedom allows the bottoms to adjust themselves perfectly to the varying conditions of their work. The self-leveling device which attaches to the rear of the beam forms a stop on which the rear of the beam rests until the point of the bottom has reached its predetermined depth, at which time the stop is released by a trip arm, allowing the heel of the plow to drop to its normal working position. In raising the bottom this action is reversed, the point coming out first. The result is that the Janesville bottoms work absolutely level in the bottom of the furrow. The entire weight of the bottom, the frame, the driver and the turning furrow is entirely on the wheels, this arrangement produces the light draft always found in the Janesville.

No. 68 Gang with 12-in. bottoms. Weight 727 lbs. Price \$66.25.

OLIVER SULKY PLOW NO. 11

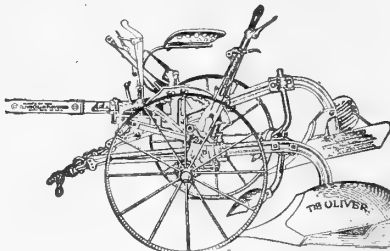


Light, durable and effective. Simple and novel device for turning. Plows the most difficult soils and does it well. Can be used with or without tongues. Depth easily regulated. Turns square corners without lifting out of the ground. Made in both right and left hand.

No. 11—Sulky Plow, Steel or Chilled Mouldboard, Chilled Share, Rolling Coulter, Weed Hook, Three-horse Evenner and Tongue. List Price, \$48.00; Our Special Price, \$36.00.

No. 11—Sulky Plow, same as above, but with Jointer instead of Rolling Coulter. List Price, \$48.00; Our Special Price, \$36.00.

OLIVER REVERSIBLE SULKY PLOW NO. 23

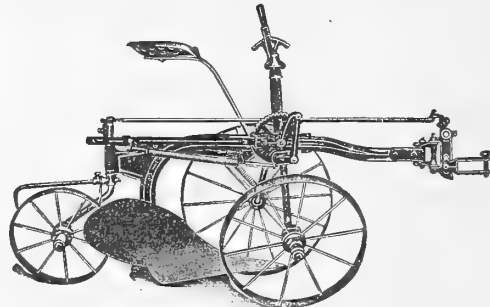


This reversible sulky plow is more easy to manipulate than any other on the market and more convenient and safe for the operator in hillside work. By means of the power lift, operated by a foot trip when riding, or a hand latch when walking, this "horse lift," which is brought into play by simply pressing forward slightly on the foot trip, the operator's work is diminished by fully one-half.

12-in. Sulky with Chilled Shares, Jointers and 2- or 3-Horse Hitch. List Price, \$70.00; Our Special Price, \$52.50.

14-in. Sulky with Chilled Shares, Jointers and 2- or 3-Horse Hitch. List Price, \$71.00; Our Special Price, \$53.25.

JANESVILLE SULKY PLOW NO. 34



This Sulky Plow can be operated with less strain on the team than the walking plow, and at the same time the team does all the work. The Janesville self-leveling device holds the heel up until the point has its predetermined depth and then allows the heel to drop to normal position. Has improved landing device and automatic control of rear furrow wheel.

No. 34 Sulky with 14-in. bottom; weight 411 lbs. Price, \$35.75.

CHATTANOOGA CHILLED PLOWS

Points of Merit: 1st. Low front, similar to Steel Pattern Plows; will not collect trash.

2d. Handle not bolted to mould, but to standard and brace that is attached to beam, thus preventing breakage of many moulds.

3d. Brace or rod between landside and mould, giving additional strength where it is most needed, making plow absolutely rigid.

4th. Special bolts which will not turn and can be readily taken out. All the

base bolts are alike and interchangeable; only one kind necessary to keep on hand.

5th. Points are fastened on with two bolts; never fails; gives satisfaction.

STEEL BEAM LOW FRONT

Cut represents two and three-horse plow.

Prices Chattanooga Plows and Extras

Nos.

	Capacity.	Wt., lbs.	Price.	Plain Shares.	Sod Cutter Shares.	Cutter Shares.	Slip Nose Shares.	Slips.	Landsides.	Mould-boards.	Steel Beams.	Wood Beams.	Handles with Braces, Set.	Standards.
45—2-Horse, Wood Beam.....	10x12	124	\$10.00	...	...	35	45	10	85	3.00	...	1.50	1.75	2.50
45—2-Horse, Steel Beam.....	10x12	131	11.00	...	...	35	45	10	85	3.00	4.00	...	2.40	2.90
46—3-Horse, Wood Beam.....	12x14	144	11.00	...	...	40	50	10	1.00	3.25	...	1.50	1.75	2.75
46—3-Horse, Steel Beam.....	12x14	165	12.00	...	...	40	50	10	1.00	3.25	4.50	...	2.40	2.75
62—1-Horse, Wood Beam.....	5x9	60	4.50	20	...	30	08	...	45	1.50	1.25	1.25	1.50	1.35
62—1-Horse, Steel Beam.....	5x9	70	5.50	20	...	30	08	...	45	1.50	3.00	...	2.00	1.35
72—1-Horse, Steel Beam.....	5x8	75	5.75	...	...	22	32	08	45	1.50	3.00	...	2.00	1.35
63—Very Light, 2-Horse, Steel Beam	8x10	105	9.00	...	30	30	40	10	70	2.25	3.50	...	2.40	2.50
64—Light, 2-Horse, Steel Beam...	9x11	123	10.00	...	30	30	40	10	85	2.75	4.00	...	2.40	2.50
65—Medium, 2-Horse, Steel Beam...	10x12	134	11.00	...	35	35	45	10	85	3.00	4.00	...	2.40	2.50
66—Heavy, 2-Horse, Steel Beam...	12x14	165	12.00	...	40	40	50	10	1.00	3.25	4.50	...	2.40	2.75

Rolling Coulters, complete, \$3.00; Wheels, complete, \$1.00; Jointers, complete, \$2.00; Bolts for Shares, Landsides, Moulds, 3c.; Rear Beam Bolts on 1-Horse Plows, 5c. All other Beam Bolts, 10c.

Chattanooga One-Horse Plow

The one-horse plows as priced below are a little different from design shown in cut. The No. 72 is the factory's latest pattern.

PRICES:

No. 62—Wood Beam.....\$4.50
No. 62—Steel Beam..... 5.50
No. 72—Steel Beam..... 5.75

Chattanooga Reversible Hillside Plows

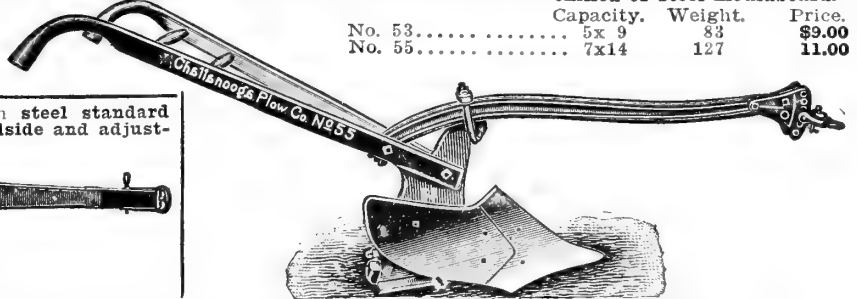
Steel beam only, 2-horse, with chilled or steel mouldboard.

Capacity.	Weight.	Price.
No. 53.....	5x 9	83
No. 55.....	7x14	127
		\$9.00
		11.00

CLIMAX STEEL PLOWS



All are made with steel standard and cap, sloping landside and adjustable slip heel.



Prices Climax Plows.

PONY.—Light, 1-horse, 7-in. cut, wood beam; very popular. Price, with extra steel point, weight 37 lbs., \$2.75.

A. O.—1-horse, 8-in. cut, wood beam. Price, with extra steel point, weight 41 lbs., \$3.25.

B. O.—1-horse or light 2-horse, 9-in. cut, wood beam. Designed for either stubble or light sod, doing both kinds of work in the most satisfactory manner; very light draft. Price, with extra steel point, weight 43 lbs., \$3.75.

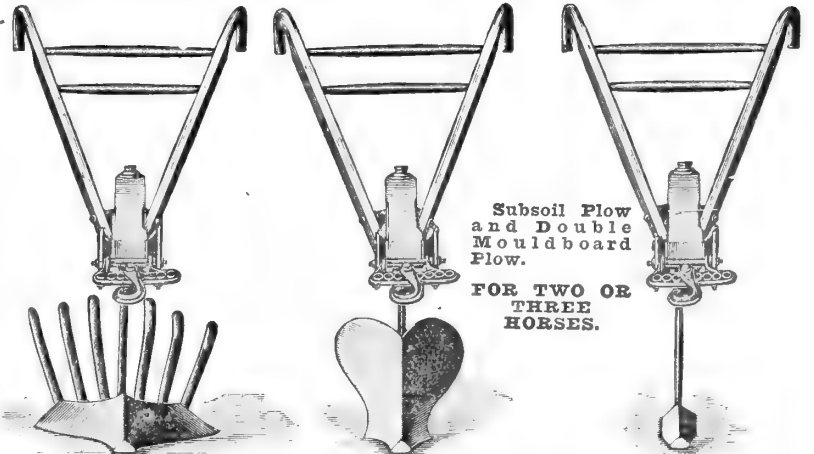
C. O.—2-horse, 10-in. cut, wood beam. Price, with extra steel point, weight 63 lbs., \$5.25.

D. O.—2-horse, 11-in. cut, wood beam; it turns its furrow slice perfectly. Price, with extra steel point, weight 66 lbs., \$5.75.

Prices of Extras.

	Points	Lands	Moulds
Pony.....	\$.35	\$.20	\$.55
A. O.....	.40	.25	.65
B. O.....	.50	.25	.80
C. O.....	.60	.30	1.10
D. O.....	.70	.30	1.25
	Beams without Clevis	Handles per pair, less bolts	Wood Beam Clevis
Pony.....	\$1.00	\$.75	\$.20
A. O.....	1.00	.75	.20
B. O.....	1.25	.75	.25
C. O.....	1.75	1.00	.35
D. O.....	1.75	1.00	.35

COMBINATION POTATO DIGGER



Subsoil Plow and Double Mouldboard Plow.

FOR TWO OR THREE HORSES.

The standard is made of malleable iron, 6½ inches wide at the narrowest point, and firmly bolted to the beam. The double mould and points and digger mould are made of chilled cast-iron, polished, and digger fingers of wrought iron. Altogether a very strong and serviceable implement.

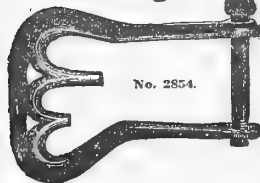
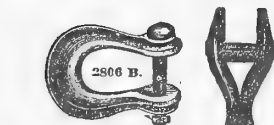
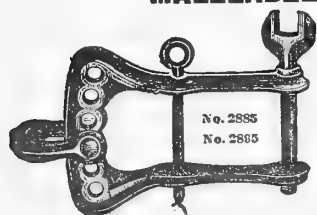
Subsoil Plow, plain.....	\$6.00
Subsoil Plow, with wheel.....	7.00
Double Mould for same, 12-inch.....	1.00
Extra Shares for Double Mouldboard, 6-inch.....	.35
Extra Shares for Double Mouldboard, 8-inch.....	.40
Extra Shares for Subsoil Plows.....	.30
Potato-Digging Attachment for same.....	2.00
Same with Steel Beam, add.....	1.00



PLOW HANDLES—Not Finished

1/4 x 2	inches, 4 1/2	feet long, per pair.....	\$.20
1/4 x 2	inches, 5	feet long, per pair.....	.25
1/4 x 2	inches, 6	feet long, per pair.....	.35
1/4 x 2	inches, 7	feet long, per pair.....	.45
1/4 x 2	inches, 8	feet long, per pair.....	.55
1/4 x 2	inches, 9	feet long, per pair.....	.60
1/4 x 2	inches, 5 1/2	feet long, per pair.....	.70
1/4 x 2	inches, Side Bend, per pair.....		.40

MALLEABLE CLEVISES



No. 2885.—2¼-in. beam; 2⅞-in. from center of wrench to center of pin; 6¾-in. extreme length; 6 holes; shackle and pin. For use on No. 5 F. F. and similar cast plows. List price, doz., **\$2.90.** Retail price, each, **25c.**

No. 2895.— $2\frac{1}{2}$ -in. beam; $3\frac{3}{8}$ -in. from center of wrench to center of pin; $7\frac{1}{2}$ -in. extreme length; 6 holes; shackle and pin. For use on No. 7 F. F. and similar cast plows. List price, doz., \$4.20. Retail price, each. **30c.**

No. 2854.—2-in. beam; 5¼-in. extreme length; 3-in. from center of wrench to end of beam. Patent wrench. For use on Girl Champion and similar cast plows. List price, doz., **\$1.70**. Retail price, each, **15c**.

No. 2838.—2-in. beam; 6½-in. extreme length; 3¾-in. from center of wrench to end of beam. Patent wrench. For use on Southern cast plows. List price, doz., **\$1.70**. Retail price, each, **15c**.

No. 2847.—2-in. beam; 5½-in. extreme length; 3-in. from center of wrench to end of beam. Patent wrench. For use on "Boy" Dixie and similar cast plows. List price, doz., **\$1.70.** Retail price, each, **15c.**

No. 2855.—2-in. beam; 3½-in. from center of wrench to center of pin; 6¾-in. extreme length. For use on Hampton Boy and Hampton No. 1. List price, doz., **\$2.50**. Retail price, each, **20c**.

No. 2806 B—End Clevis.— $\frac{3}{4}$ -in. inside measure; 3-in. extreme length. List price, doz., **80c.** Retail price, each, **8c.**
No. 2800—Flow Link.—3-in. long, $2\frac{1}{2}$ -in. wide. List price, doz., **60c.** Retail price, each, **5c.**

Extras for Steel Beam Syracuse Plows

Extras for Steel Beam Syracuse Plows

Nos.	No. Horse.	Common shares.	Cutter shares.	Cast lands.	Chilled moulds.	Beams.	Standards.	Slip shares.	Slip points.
7	R.H. only	\$.40	\$.50	\$.80	\$3.25	\$3.50	\$2.75	\$.50	\$.10
8	" " "	.40	.50	.75	3.25	3.50	3.00	.50	.10
15	" " "	.45	.55	1.00	3.25	4.00	3.50		
21	L.H. only	.40	.50	.85	3.25	3.50	3.00		
25	or 3 H. Horse.	.45	.55	1.00	3.25	4.00	3.50	.50	.10

Jointers, complete, chilled, **\$2.00.** Wheels, complete, **\$1.00.**
For Heavy Shares, add **5c.** each.

Jointer Points for any of above Syracuse Plows, **20c.** Syracuse Base Bolts, **3c.**

Repairs for Wiard Plows

Nos.	Kind.	No. Horse.	Price.		Moulds
			Shares.	Lands.	
62	R. H. only	1 Horse	\$.25	\$.25	\$.75
13	"	"	.35	.50	1.50
10	"	1 "	.35	.50	2.00
19	"	2 "	.40	.75	3.00
16	"	2 "	.40	.75	3.00
18	"	2 "	.40	.75	3.50
26	"	2 or 3 Horse.	.40	.75	3.50
26½	"	2 Horse	.40	.75	3.25
27	L. H.	2 "	.40	.75	3.25
28	"	2 "	.40	.75	3.50
116	Hillside	2 "	.55	.....	3.00
126	"	2 "	.55	.....	2.50
130	"	2 "	.55	.....	2.50

Repairs for South Bend Plows

Nos.	Shares.	No. Horse.	Shares.	Land.	Moulds.	Handles, sets complete.	Standards.	Wood Beams.	Shims.
62	Solid	H. R. H. only	\$.20	\$.30	\$1.00	\$1.00	\$1.25	\$.75	...
2	"	"	.30	.40	1.75	1.50	1.50	.75	...
2	"	"	.35	.75	2.50	1.25	1.50	.90	...
2	"	Horse. ....	.35	.75	2.50	1.25	1.50	.90	...
2	"	"	.35	1.00	3.00	1.50	1.50	1.00	...
4	"	"	.40	1.00	3.25	1.50	1.25	1.25	...
10	"	"	.40	1.00	3.50	1.50	3.00	1.25	...
15	"	"	.40	1.00	3.50	1.50	3.00	1.25	...
3	"	"	.45	1.00					...
15	Slip	"	.45	1.00					...
4	"	"	.50	1.00					...
10	"	"	.50	1.00					...
15	"	"	.50	1.00					...

Jointers, complete, \$2.00 Wheels, complete, \$1.00. Rolling
Coulters, \$3.50. Handles, single, all numbers, 50c. each. Other
extras not named here can be furnished; price on application.
Standing Coulters, \$2.00. Slip Points, each, 10c.

Repairs for Syracuse Plows

Nos.	Wood Beam Chilled Plows.		Cutter Shares.	Shares.	LANDS.	Moulds.	Beams.	Standards.	Shins.	slip shares.	Slip points
44	R.	H. only	1 Horse	\$.20	\$.40	\$1.35	\$1.25	\$1.35			
50	"	"	1 "	.20	.50	1.40	1.75	1.75			
51	"	"	1 "	.25	.55	1.85	1.75	2.00			
52	"	"	1 "	.25	.65	2.25	1.75	2.00			
53	"	"	1 or 2 H	\$.40	.30	.65	2.50	1.75.			
54	"	"	Light 2.	.45	.35	.75	2.75	2.00			
55	"	"	Med. 2.	.45	.35	.80	3.00	2.00			
56	"	"	Reg. 2.	.50	.40	.85	3.25	2.00			
57	"	"	2 or 3 H	.50	.40	1.00	3.25	2.00			
58	L.	H.	2 Horse	.45	.35	.80	3.00	2.00			
96	"	"	2 "	.50	.40	.85	3.25	2.00			
97	"	"	2 or 3 H	.50	.40	1.00	3.25	2.00			
501	"	"	"	.40	1.00		3.25	2.00			
502	"	"	"	.40	.85		3.25	2.00			
503	"	"	"	.35	.80		3.00	2.00			
601	R.	H.	"	.40	1.00		3.25	2.00			
602	"	"	"	.40	.85		3.25	2.00			
603	"	"	"	.35	.80		3.00	2.00			

Repairs for Syracuse Contractors' Plows

Nos.	For Contractors' Plows, see page 173.	Steel shares.	Moulds.	Beams.	Standards.	Shins.
99		\$5.00	\$3.50	\$8.00	\$10.00	\$1.00
98		5.00	.....	11.00	.....	.....
1	Heavy Cast. ....	.45	3.25	5.50	.....	.....

Extras for Iron Beam Syracuse Plows

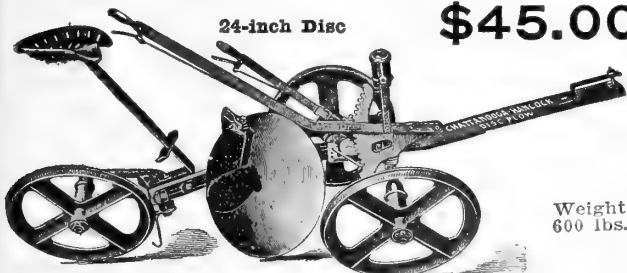
Nos.	No. Horse.	Common shares.	Cutter shares.	Cast lands.	Moulds, chilled.	Beams.	Slip shares.	Slip points.
3-78	R. H. only	3	3	3	3	3	3	3
2-78	"	4	4	4	4	4	4	4
1-78	"	5	5	5	5	5	5	5
10-78	"	6	6	6	6	6	6	6
20-78	L. H. only	2	2	2	2	2	2	2
30-78	"	3	3	3	3	3	3	3
20-78	"	4	4	4	4	4	4	4
30-78	"	5	5	5	5	5	5	5

THE CHATTANOOGA-HANGCOCK DISC PLOWS

Single Disc Plow

24-inch Disc

\$45.00



Weight,
600 lbs.

It handles more cubic inches of soil with less draft than any other plow made; it turns under stalks, trash and weeds completely; it breaks up "hard pan" and pulverizes the soil. It leaves the ground at bottom of furrow porous and natural; it prepares the soil to withstand either a wet or dry season; it insures better crops than any other method of plowing.

It is so simple in design, so few in parts and so perfect in construction that anyone can operate it.

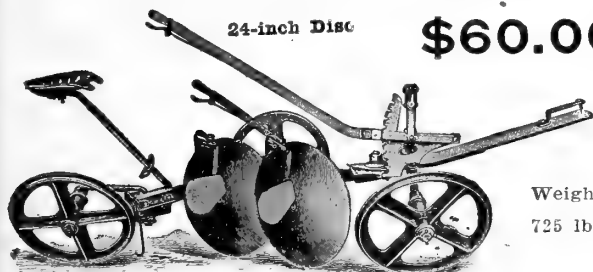
It is not a sod plow; it is a pulverizer. You cannot pulverize sod. Everywhere else it is all right.

Single Disc, with double and triple trees, price.....**\$45.00**
Double Disc, double and triple trees, price.....**60.00**

Double Disc Plow

24-inch Disc

\$60.00

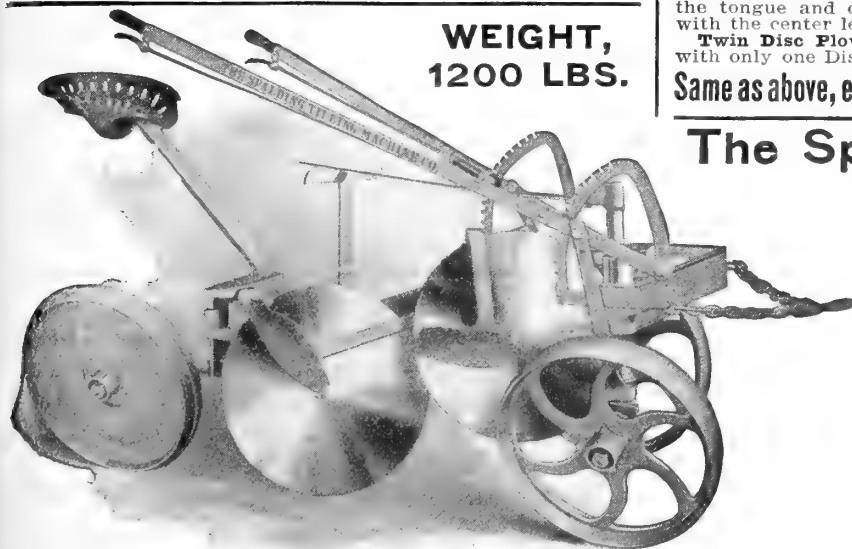


Weight,
725 lbs.

What is said about the single disc pertains to the double. It is only a matter of number of horses. If 100 pounds be added to the draft of the single it will cover the double. It will be seen the difference in draft is comparatively slight.

We guarantee our Disc Plow to do good work, not only in hard, dry and sticky ground, but to do good work in any fallow ground, either clean or trashy; in short, to be good anywhere, at any time, except turf land.

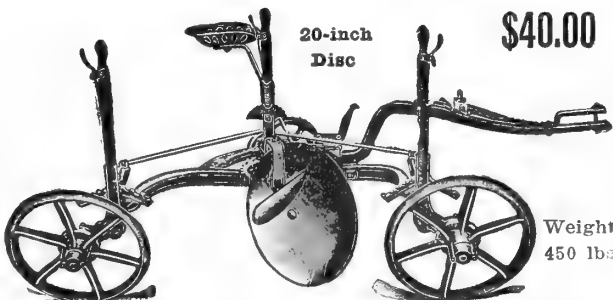
**WEIGHT,
1200 LBS.**



Chattanooga Reversible Disc Plow

20-inch
Disc

\$40.00



Weight,
450 lbs

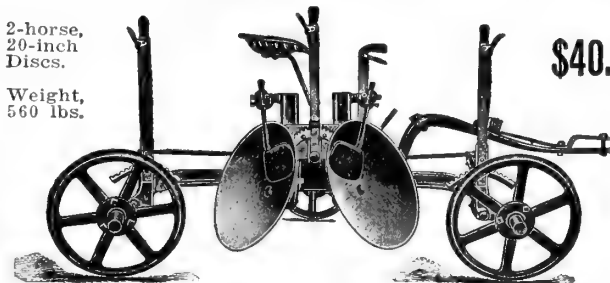
The "Chattanooga" is the only successful Reversible Disc Plow built. On steep hillside, where a team can walk and draw a plow, it works perfectly. The combination of features in **The Chattanooga Reversible** makes it the most valuable of all **Disc Plows**. It can be used right or left hand, plowing around the land, or **Reversible**, throwing furrows all one way. Will plow between terraces **without leaving a water-furrow**.

Will do good work, not only in hard, dry and sticky ground, but will do good work in any fallow ground, either clean or trashy, on hillsides or level land; in short, it will work anywhere, at any time, when plowing can be done, except in sod land. We warrant against breakage for twelve months caused by defects in material or workmanship. Price, **\$40.00**.

Twin Disc Reversible Plow

2-horse,
20-inch
Discs.

\$40.00



Weight,
560 lbs.

It is an accepted fact today that the **Reversible Disc Plow** is the most practical, general purpose plow for level and rolling land or hillsides—the conditions found on nearly every farm.

Twin Disc Reversible Plow combines the two essential features that interest plowmen—**Simplicity and Economy**.

In reversing the plow remains stationary; the team turns the tongue and operator. The discs are raised and lowered with the center lever. **This is Simplicity.**

Twin Disc Plow costs no more than Reversible Disc Plow with only one Disc. **This is Economy.**

Same as above, except with 24-inch Discs, 3-horse, **\$50.00**

The Spalding Deep Tilling Machine

Endorsed by agricultural authorities. It is the only mechanical means for mixing the top and bottom soils together, thoroughly pulverizing the two soils. The front disc cuts from four to eight inches, and turns the trash over into the bottom of the furrow. The rear disc follows in the furrow of the front disc and cuts from six to nine inches deeper. In this operation the soils become thoroughly mixed. The Spalding Deep Tilling Machine makes but one furrow at a time, although two discs are employed in its construction, one disc cutting deeper than the other. In other words, the machine cuts two furrows deep at a single operation. The machine can be adjusted to cut a furrow to a depth of from eight to sixteen inches deep, and make an excellent seed bed.

Write for prices and special circular.

CELEBRATED APPLETON CORN HUSKER

This Husker will do the work. It is no experiment. It is superior to all others. We will be pleased to send anyone names of representative farmers who are using the Appleton Husker and will testify in its favor. We know that most Huskers have failed to give satisfaction. The Appleton Husker never fails to measure up to the expectation of purchaser. Write for interesting Husker Catalogue.

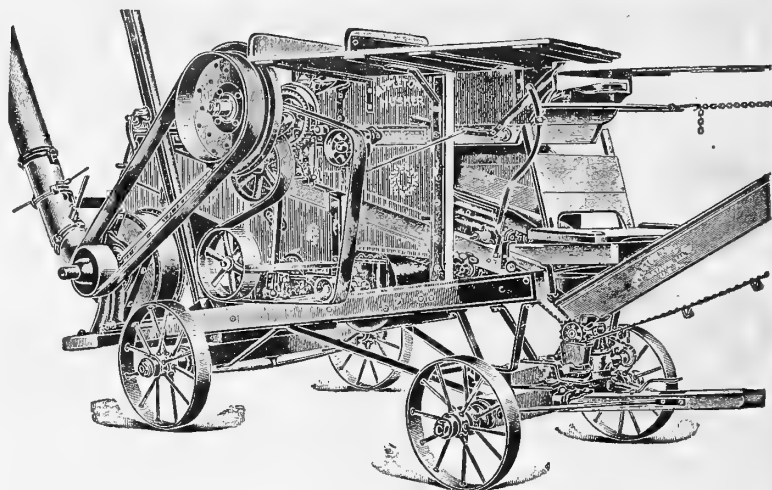
We guarantee that under the same conditions the Appleton Husker will do more and better work than any other Corn Husker on market; that it is simpler and requires less power. It is easier and safer to feed.

Capacity of Appleton Corn Huskers and Power Required.

Size.	Horse-Power.	Capacity Per Hour.
No. 14.....	4-6	12-25 Bushels.
No. 18.....	6-10	40-60 Bushels.
No. 24.....	8-12	60-90 Bushels.
No. 32.....	15-20	80-125 Bushels.

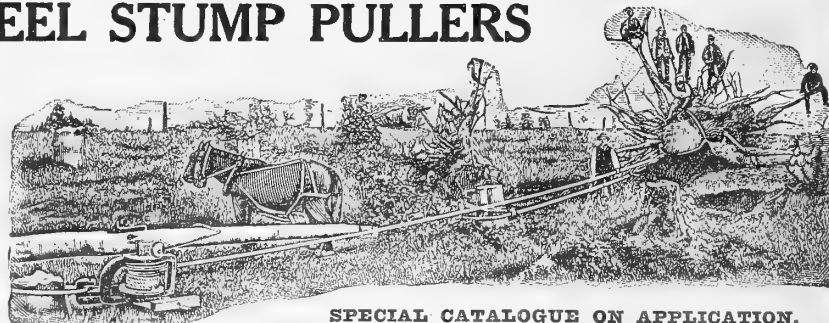
Above power for cutter head. For shredder head we recommend 4 H. P. more.

No. 14—Two-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower and wheel mounting.....	\$246.88
No. 14—Husker, with shredder head instead of cutter head.....	256.25
No. 14—Husker, with both cutter and shredder head.....	287.50
No. 18—Four-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower and wheel mounting.....	508.25
No. 18—Husker, with shredder head instead of cutter head.....	327.00
No. 18—Husker, with both shredder and cutter head.....	345.75
No. 24—Six-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower and wheel mounting.....	485.00
No. 24—Husker, with shredder head instead of cutter head.....	500.00
No. 24—Husker, with both cutter and shredder head.....	531.88
Blower Pipe, extra length, per foot.....	1.25
No. 32—Eight-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower and 4-Wheel mounting, f. o. b. factory.....	625.00
No. 32—Husker, with shredder head instead of cutter head, f. o. b. factory.....	643.75
No. 32—Husker, with both shredder and cutter head, f. o. b. factory.....	681.25



MONARCH SEMI-STEEL STUMP PULLERS

The old reliable Monarch Stump Pullers are the strongest and most convenient stump-pulling machines made. The conspicuous features of the Monarch Machines are the solid-piece main frame, built for strength, and decidedly the best stump-puller frame made. The frame is the foundation of the stump puller; so in making such a perfect main frame the manufacturers of the Monarch Stump Pullers are beginning the splendid construction which characterizes the Monarch Machine from start to finish. Next, the grooved drum, with the grooves made to fit the proper size of cable for each machine. Then the drum clutch, which holds the drum in place at all times, whether the strain is on or not; the sweep clutch, with the wide, heavy flanges, or either log or sawed sweep; the double eccentric lever, which lifts both sides of the sweep clutch at the same time; the improved ratchet, the long anchor hook extending out from the main frame, the drum-controlled lever, and last, not least, on all Monarch Stump Pullers, except the No. 3 One-Horse Machine, we furnish the celebrated Hercules Red Strand Pulling Cable, which has been adopted after careful and exacting tests, and which the manufacturers consider the only cable suitable for standing the full power developed by the Monarch Stump Pullers. Do not get this cable confused with any other kind. It is the Hercules Cable, manufactured by A. Leschen & Sons Rope Co.



SPECIAL CATALOGUE ON APPLICATION.

	List Price.	Our Price.
No. 3 Monarch Stump Puller, with 50 ft. 3/4-in. Pull Cable, 8 ft. 3/4-in. Anchor Cable.....	\$55.00	\$38.50
No. 3 Monarch Stump Puller, with 75 ft. 3/4-in. Pull Cable, 8 ft. 3/4-in. Anchor Cable.....	64.00	44.80
No. 3 Monarch Stump Puller, with 100 ft. 3/4-in. Pull Cable, 8 ft. 3/4-in. Anchor Cable.....	72.00	50.40
No. 4 Monarch Stump Puller, with 75 ft. 3/4-in. Pull Cable, 10 ft. 3/4-in. Anchor Cable.....	98.00	70.00
No. 4 Monarch Stump Puller, with 100 ft. 3/4-in. Pull Cable, 10 ft. 3/4-in. Anchor Cable.....	113.00	80.00
No. 4 Monarch Stump Puller, with 150 ft. 3/4-in. Pull Cable, 10 ft. 3/4-in. Anchor Cable.....	143.00	100.00
No. 5 Monarch Stump Puller, with 100 ft. 7/8-in. Pull Cable, 12 ft. 7/8-in. Anchor Cable.....	135.00	96.25
No. 5 Monarch Stump Puller, with 150 ft. 7/8-in. Pull Cable, 12 ft. 7/8-in. Anchor Cable.....	173.00	122.50
No. 6 Monarch Stump Puller, with 100 ft. 1-in. Pull Cable, 12 ft. 1-in. Anchor Cable.....	154.00	109.50
No. 6 Monarch Stump Puller, with 150 ft. 1-in. Pull Cable, 12 ft. 1-in. Anchor Cable.....	199.00	142.50

PRICES OF DOUBLE-POWER PULLEYS.

	List Price.	Our Price.
No. 3, with 10 ft. 1-in. Cable, with hook on end.....	\$18.00	\$13.50
No. 4, with 12 ft. 1-in. Cable, with hook on end.....	26.00	18.00
No. 5, with 15 ft. 1 1/4-in. Cable, with hook on end.....	30.00	21.00
No. 6, with 15 ft. 1 1/4-in. Cable, with hook on end.....	35.00	24.50

GENUINE BESSEMER STEEL STUMP HOOKS.

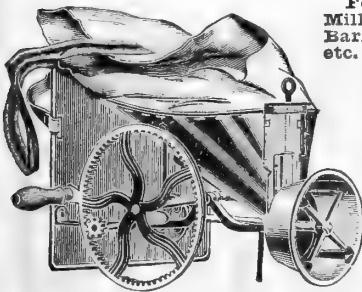
	List Price.	Our Price.
No. 4, for No. 3 and No. 4 machines.....	\$20.00	\$14.00
No. 7, for No. 5, No. 6 and No. 7 machines.....	25.00	17.50

THE MONARCH IMPROVED CAM ROPE TAKE-UP.

	List Price.	Our Price.
No. 4 Cam Take-up, with 10 ft. 3/4-in. Hercules Cable....	\$17.00	\$11.90
No. 5 Cam Take-up, with 10 ft. 7/8-in. Hercules Cable....	24.00	16.80
No. 6 Cam Take-up, with 12 ft. 1-in. Hercules Cable....	30.00	21.00

If interested in Stump Pullers, write for our catalog of the Monarch line, which is very complete and useful; also let us know how much stumpy land you have, the kind of soil, the kind and size of stumps, how close to the ground they are cut, and whether they are green or dead. This information will enable us to recommend the equipment most suitable for your work.

CAHOON'S BROADCAST SEED SOWER



For sowing Clover, Timothy, Millet, Oats, Wheat, Hemp, Barley, Rye, Rice, Buckwheat, etc. Standard Seeder of the World—A Model for Accuracy and Durability—Malleable Iron Frame—Steel Hopper and Gate—Brass Discharger.

The breadth of the cast will be according to the weight of the seed. Wheat and Rye, 30 to 36 feet. Oats, 21 to 25 feet. Barley, 27 to 33 feet. Clover, Millet, Hungarian Seed, 20 to 24 feet. Hemp, 27 to 30 feet. Timothy, 15 to 18 feet.

OUR SPECIAL PRICE, \$3.00. Parcel Post Weight, 8 lbs.

THE ORIGINAL IMPROVED CYCLONE



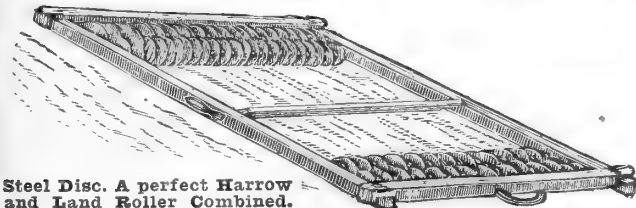
THE SOWER THAT SCATTERS EVENLY

Although this machine has been much improved and simplified in recent years, yet the same general principles which characterized it when sold from \$10.00 to \$12.00 each are still retained. It differs materially and very advantageously from all other Sowers in having a slope feedboard with an oblong hopper which terminates in a metal edge, on which edge oscillates a feed plate which does not allow the seed to become clogged, but makes a positive force feed and insures a uniform flow and even distribution of seed. Any one desiring a convenient, practical and an all-round first-class grain and grass seeder, a good, large sower that will meet the most exacting demands, we cannot recommend the CYCLONE too highly.

PRICE, \$1.50. Parcel Post Weight, 6 lbs.

GRASS SEEDS AND FORAGE PLANTS, See Pages 44 to 48.

MEEKER SMOOTHING DISC HARROW



Steel Disc. A perfect Harrow and Land Roller Combined.

The frame measures 6 feet 8 inches by 6 feet, and has four sets of rollers, having 58 discs, 8 inches diameter on them. The discs grind all the lumps so fine that the seed must come up, leveling and leaving the land fine and smooth, and doing its work far better than the rake. Price, \$22.50. Special Discount for Cash.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

THOMPSON'S CLOVER AND GRASS SEEDER

Sows 14 to 16 Feet Wide, Any Amount Desired Per Acre. Will Sow 20 to 25 Acres Per Day.

This Grass Seeder is simple, without gearing, cams or intricate machinery. It cannot get out of order.



Perfection feed is attained in making it absolutely positive, yet a non-leaking carrier, when thrown out of connection. The quantity of seed to the acre is accurately shown by the index plate.

It is strong, yet weighs but 40 pounds.

No. 1—Complete Clover and Grass Seeder, the most popular style. 14-foot, \$6.50; 16-foot, \$6.75.

No. 5—Complete Seeder, with Double Hopper, sows Red Top, Orchard Grass, Blue Grass, Lawn Grass, as well as Clover. 14-foot, \$8.50.

MANILA ROPE FEEDER.

GRITCO No. 9 LAWN GRASS SEEDER.

Made especially for handling Lawn Grass Mixtures. These mixtures are generally composed of different kind of grasses, and the regular seeder will not handle them.

No. 9 \$10.50.

THOMPSON'S ROYAL CLOVER AND GRASS SEEDER

These Seeders are similar to the Thompson above, except they have Chain Feed.

No. 11—14 ft., single hopper \$6.50
No. 11—16 ft., single hopper 6.75
No. 12—14 ft., double hopper 8.50

LIGHTNING SEED SOWER

Cheap, durable, weighs only 12 oz. Simple; no repairs.



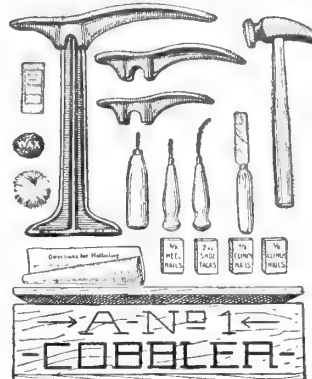
Will spread seed evenly from 30 to 40 feet. Method of sowing is by swinging tube in horizontal position from right to left, which closely resembles the old method by hand. Gives control over seed on a circle of 8 feet before it leaves the tube, and the wind has no chance to blow seed into bunches before it strikes the ground.

PRICE, 75c.

Parcel Post Wt., 1 lb.

Will Sow 60 Acres per Day of Clover, Timothy Millet, Alfalfa, Flax, etc.

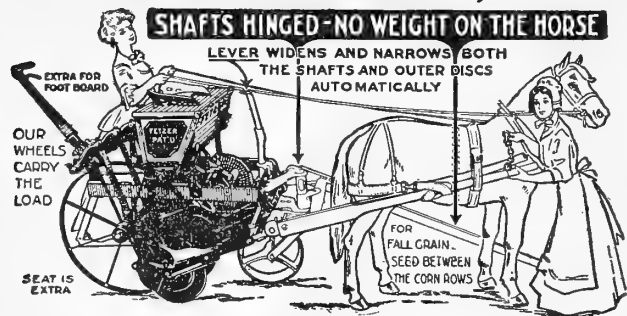
THE A NO. 1 COBBLER'S OUTFIT



This Cobbler's Outfit should be in every home. Do your own shoe repairing. It is expensive to have a cobbler repair them. Each set includes the following: 1 Stand for Lasts, 1 Extra Large Last, 1 Medium Last, 1 Small Last, 1 Shoe Knife, 1 Hammer Head, 1 Hammer Handle, 1 Sewing Awl, 1 Sewing Awl Handle, 1 Harness Awl, 1 Harness Awl Handle, 1 Peg Awl, 1 Peg Awl Handle, 1 Peg 4-8 Clinch Nails, 1 Pkg. 5-8 Clinch Nails, 1 Pkg. 2 oz. Shoe Tacks, 1 Pkg. 5-8 Heel Nails, 1 Pkg. (6) Shoe Needles, 1 Ball Shoe Wax, 1 Ball Shoe Thread, 1 Copy Directions.

Price, per set 75c.
Parcel Post Weight, 7 lbs.

MODERN ONE-HORSE DRILL, 5 DISKS

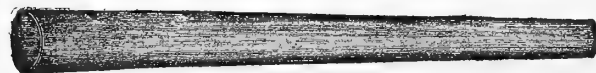


Just the thing for the Farmer, Truck Farmer and Gardener. Cups are fitted for sowing peas, beans, ensilage, corn and sugar beet seed, as well as wheat, rye, flax and oats.

With the disks set 7 inches apart, the distance between outside disks is only 28 inches (or 8 inches apart is 32 inches), so that the drill will safely pass between corn rows 36 inches or wider apart.

	List Price.	Our Special Price.
Price, with Rigid Frame.....	\$41.60	\$33.25
Extra for Truck Wheel.....	3.00	2.40
Fertilizer Attachment Extra.....	9.00	7.20
Grass Seeder Attachment Extra.....	4.50	3.60
Extra for Oat Agitator.....	2.00	1.60
Extra for Widening and Narrowing Lever..	2.00	1.60

GRAIN DRILL TUBES



Plain Top.



Ring Flange.



Bell Top.



Flat Flange.



Galv. Conductor.

IN ORDERING TUBES it is always best to send an old tube as a sample. If that cannot be done, be sure to state name of **Drill**, the kind of **Tube**, whether **ring flange** or **plain top**, or **special bell-shaped top** with straps, and by all means the length and diameter at top and bottom.

Plain Tubes, each.....	25c.
Bell Top Tubes, with strap, each.....	35c.
Flat or Ring Flange Tubes, each.....	30c.
Galvanized Conductors, each.....	40c.

GRAIN DRILL POINTS

We are one of the largest distributors of **GRAIN DRILL POINTS AND TUBES** in the Country.

For All the Leading Grain Drills.

IN ORDERING POINTS, either send an old one or give name of **Drill**, length of point, and be sure to give distance from center of hole to end of point. It is always best, if possible, to send an old sample.

Price, Points, each.....10c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

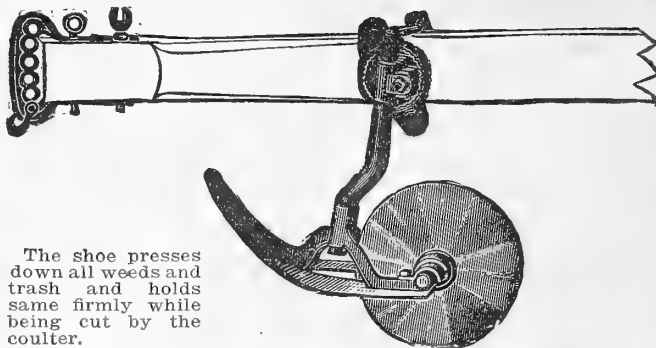
GRAIN AND FERTILIZER DRILL



Both the grain and fertilizer are positive force feeds, and will sow with absolute regularity any kind of grain, or fertilizer in good condition. The grass seeder is also a force feed, and can be used either in front or rear of the hoes; also quantity can be changed to any amount necessary. It is fastened on the frame, and very low down, thus preventing the wind from blowing the seed away before reaching the ground. The fertilizer feed can be stopped or started at any time while the drill is in motion, which makes it convenient in case the operator does not wish to sow fertilizer while going over the ground.

8-Hoe Pin.....	\$68.75	10-Hoe Spring.....	\$1.00
9-Hoe Pin.....	73.00	11-Hoe Spring.....	\$5.50
10-Hoe Pin.....	78.00	8-Disk Drill.....	74.25
11-Hoe Pin.....	82.50	9-Disk Drill.....	79.00
8-Hoe Spring.....	71.00	10-Disk Drill.....	84.25
9-Hoe Spring.....	76.00	11-Disk Drill.....	89.00

"MOON" ROLLING COULTER



The shoe presses down all weeds and trash and holds same firmly while being cut by the coulters.

No. 1— 8-inch disk.....	\$2.75
No. 2—10-inch disk.....	3.25
No. 3—12-inch disk.....	3.75

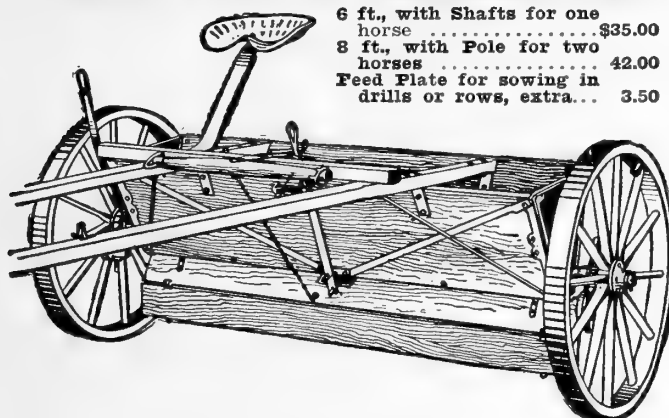
PERFECTION CULTIVATOR



This handy tool is a great convenience, both in the home garden and on the large truck farm. Depth of cultivation easily regulated. The disks make it possible to cultivate up close to the plants.

Price\$5.00

GRITCO-R BROADCAST LIME DISTRIBUTER



6 ft., with Shafts for one horse\$35.00
 8 ft., with Pole for two horses 42.00
 Feed Plate for sowing in drills or rows, extra... 3.50

The rapid increase in the use of lime demands a machine to apply these materials which is moderate in cost and accurate in its distribution.

This distributor is designed for broadcasting lime and ashes, and it will distribute in drills or rows when supplied with an extra feed plate especially punched according to the width of the row.

The amount of lime this machine will sow to the acre depends somewhat on its weight per bushel, as well as its condition, but the 13 notches of feed opening average to spread from 250 lbs. per acre at the lowest notch to 3550 lbs. at the highest notch.

Special features make this distributor lead all machines of its kind and work where others fail.

The Agitator, or beater, in bottom of the hopper revolves only when the load is being spread. It does not turn constantly.

Revolving Prongs with 3½-inch spaces placed directly over the feed openings make a forced feed that is most satisfactory.

The Feed Plate is of short sections of cast iron, and the slide plate directly beneath it is of steel, separated from the feed plate by liners.

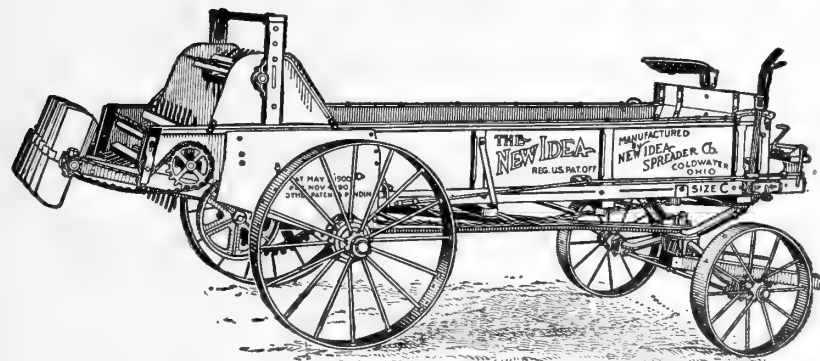
Hand Shaker (at the driver's right hand) is used only when lime is damp or does not fall freely into the agitator. It helps even spreading, which is a great feature.

The Shaker Board hangs from the bottom of the hopper, and is controlled by a chain, holding it at any desired angle and broadcasting the lime evenly.

The Wind Break hangs from the shaker board, free to swing in any direction if an obstruction is met, and prevents wind sweeping under the machine and carrying the lime away.

NEW IDEA MANURE SPREADER

THE NEW IDEA



Is the only high-class spreader on the market to-day, because it combines all the features necessary to make a good spreader. There are plenty of manure unloaders on the market, but the **NEW IDEA** is the only **PULVERIZER** and **SPREADER**. No gears to wear out and break, and no unnecessary noise, as a chain, when oiled occasionally runs practically noiseless. Competitors will tell you that they gain power by the use of gear wheels. Any authority on power will tell you that the more direct you can drive a machine, the less power it will consume.

When the load is off, the chain is raised off the large sprocket wheel, and there is no wear in driving to and from the field. This cut also shows the reach or coupling used, which makes it impossible to strain the bed—a very common occurrence on other machines.

The range of feed can be instantly changed whilst the machine is in operation by shifting the lever on the right side of the machine, and can be stopped entirely. As the feed and drive work independently of each other, if you get to a place where you do not wish to spread, keep your machine running and merely shut off the feed.

When the manure leaves the two cylinders it drops on the rapidly rotating distributor at the rear end, which, through its speed and its obliquely set paddles, breaks up any bunches that might pass over, and spreads the manure out in a wide and even spread, fully the width of the wheel tracks. Even, not thick in the center and thin on the edges.

Spreading the width of the track makes it unnecessary to drive over the spread manure with the New Idea, a necessity with all others. This feature alone is worth the price of the machine, and when once seen in operation will convince the most skeptical buyer.

The Conveyor of the New Idea is made out of two strands of No. 77 malleable chain, fastened to heavy channel steel bars, and is endless, and runs over a solid bottom, something similar to the bottom of a wagon box. It lasts a lifetime with ordinary care.

Traction lugs are furnished with each machine. This is another New Idea device. Very efficient and easy to remove when not needed. The rear wheels have square holes punched in them, and lug bolts are inserted and clamped tight with a nut.

BOTH WHEELS DRIVE.

The rear axle revolves in long journals, and is fitted with ratchets on each end, which engage in the notches in the hub of the rear wheels. Very simple and durable.

Prices of New Idea Manure Spreaders—75-Bushel Capacity, with Three-Horse Eveners\$125.00

Brake, Additional 5.00

SPECIAL DISCOUNT FOR CASH. Write for Special Circular of **NEW IDEA SPREADER.**

OUR SPECIAL FERTILIZER DISTRIBUTER

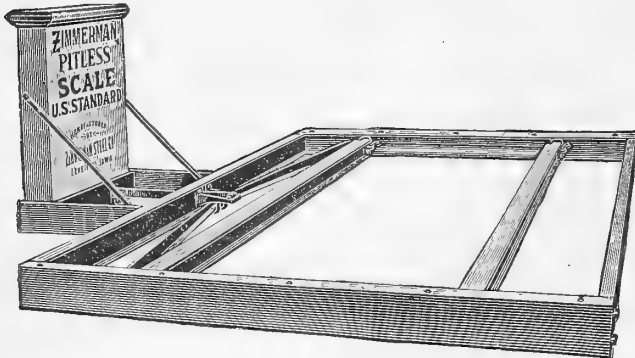


This cut shows **Our Special Fertilizer Distributer**, which has become very popular. It has a positive force feed, and will sow all kinds of fertilizer. It is made of the best material, and is practical.

List Price, \$19.00. Our Special Price, \$15.00.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

PITLESS STEEL FRAME WAGON SCALES



The five-ton Scale is the standard size. Smaller and larger Scales quoted on application.

Tons.
5

Platform.
14 x 8

Description.
Steel frame.

The demand for a shallow or so-called Pitless wagon Scale has increased from year to year until now a great many farmers will consider nothing else.

This cut shows the Zimmerman Pitless Scale with steel frame and with beam box and platform sills in place. It is ready for weighing, except for the platform planks.

The ends and side pieces of the frame are heavy steel channel with the flange side in, making a sharp steel edge against the plank and eliminating the possibility of frost, sleet, snow, ice or mud sticking to the platform. Platform is always free and requires no attention.

The end channels are reinforced on the upper side by a heavy steel plate 3½ inches wide, riveted solidly with pneumatic riveting hammers to the upper flange. This steel reinforcement strengthens the end channels so that they cannot be crushed or bent by the impact of an extra heavy load being driven on scale. It also completely covers and protects the bearings, preventing mud, dust and dirt from getting to them, and thus insures added accuracy and long life in the bearings.

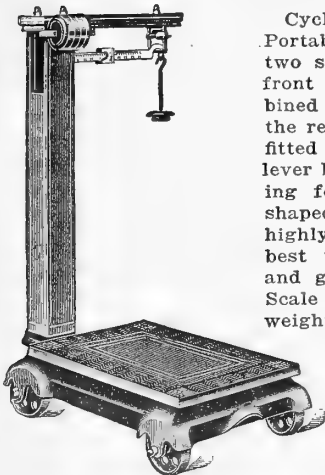
The platform sills are extra heavy steel of the I-beam type. They are lined with well painted, three-inch-thick wood, to which platform planks are to be nailed.

This Scale, as a whole, is extremely strong, durable and efficient. It is practically trouble-proof because of its simple, sturdy construction and is accurate and dependable.

List Price, \$140.00. Our Price, \$80.00.

PORTABLE SCALES

CYCLO PLATFORM SCALE



Cyclo Ball Bearing Swivel Wheel Portable Scales are constructed with two swivel or castor wheels at the front or beam end of frame, combined with two stationary wheels at the rear end of frame. This Scale is fitted with hardened, self-adjusting lever bearing loops and platform bearing feet. The beam and crescent-shaped sliding poise of solid brass, highly polished. All pivots are of best tool steel, carefully tempered and ground to a knife edge. Each Scale is sealed to U. S. Standard weights and are carefully packed.

No.	Capacity.	Price.
87.....	600 lbs.	\$12.75
88.....	800 lbs.	13.75
89.....	1000 lbs.	15.00

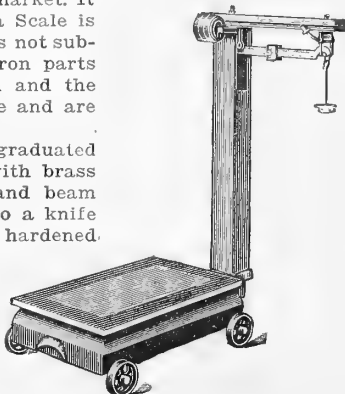
SIMPLEX PLATFORM SCALE

This is the best cheap grade Portable Platform Scale on the market. It is intended for use where a Scale is only used occasionally and is not subject to hard usage. The iron parts are finished in black japan and the wood parts are painted blue and are well finished.

The beam is carefully graduated and made of solid brass, with brass sliding poise. The lever and beam pivots are of steel drawn to a knife edge and are supported in hardened bearing loops.

Each Scale is sealed to U. S. Standard weights and are carefully packed.

No.	Capacity.	Price.
95.....	600 lbs.	\$11.00
96.....	800 lbs.	12.00
97.....	1000 lbs.	13.00



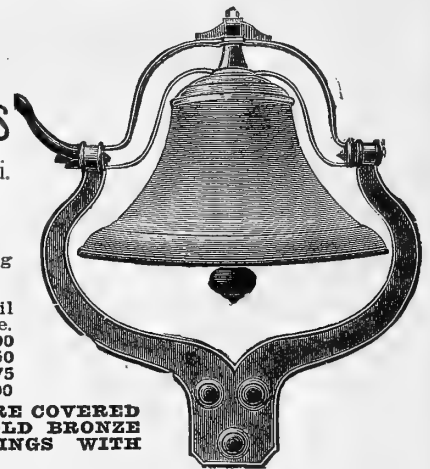
CRYSTAL METAL FARM BELLS

No.	Wt. com- plete.	Diam. of Bell.
1....	40 lbs.	15 in.
2....	50 lbs.	17 in.
3....	75 lbs.	19 in.
4....	100 lbs.	21 in.

Prices, including hangings complete. Bronzed.

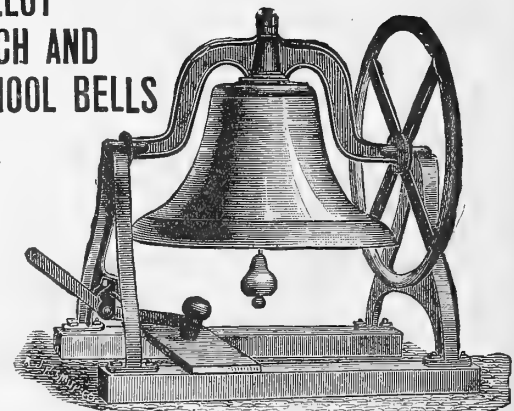
No.	List Price.	Retail Price.
1.....	\$4.00	\$2.00
2.....	5.00	2.50
3.....	7.50	3.75
4.....	10.00	5.00

THESE BELLS ARE COVERED WITH A RICH GOLD BRONZE AND THE HANGINGS WITH GOOD VARNISH.



STEEL ALLOY CHURCH AND SCHOOL BELLS

Cast from an alloy of cast steel and crystal metal, and can be relied on under all circumstances and in all seasons.

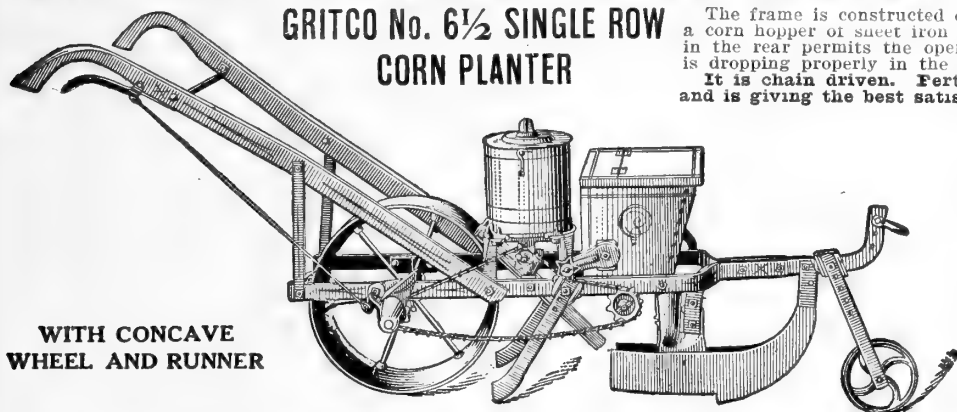


No.	Diam.	Weight, Bell only.	(MOUNTED) Wt. complete.	List Price.	Retail Price.
22	22 in.	122 pounds.	175 pounds.	\$20.00	\$16.00
24	24 in.	153 pounds.	225 pounds.	25.00	20.00

Tolling hammer not furnished with No. 22. When furnished with No. 24, List, \$5.00; Retail, \$4.00. Prices on above named are for COMPLETE BELLS, and include wood sills and iron Wheel.

GRITCO SINGLE ROW CORN PLANTERS

GRITCO No. 6½ SINGLE ROW CORN PLANTER



WITH CONCAVE WHEEL AND RUNNER

The frame is constructed of heavy steel, and we furnish it with a corn hopper of sheet iron as illustrated. The corn hopper being in the rear permits the operator to always see whether the corn is dropping properly in the row.

It is chain driven. Fertilizer feed is a positive force feed, and is giving the best satisfaction. Front wheel is adjustable to regulate depth of planting.

The fertilizer feed will sow from twenty to four hundred and fifty pounds per acre.

We furnish the planter with four rings or dropping dies. Two with small holes, and two with large holes, for dropping one or two grains to a hill.

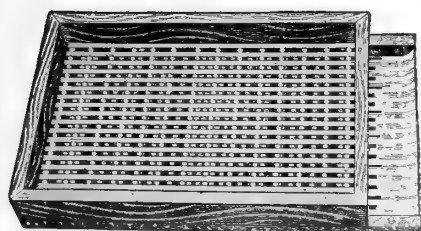
Five chain wheels are furnished with the Planter, so as to suit all kinds of planting.

Without Fertilizer Attachment, List Price, \$19.00; Our Special Price, \$12.00.

With Fertilizer Attachment, List Price, \$22.00; Our Special Price, \$15.00.

PERFECTION CORN GRADER

NO ONE WHO PLANTS CORN CAN AFFORD TO BE WITHOUT A CORN GRADER.



Every farmer now knows his seed corn should be graded. No planter will drop right with ungraded seed.

Graded seed insures perfect dropping, stronger plants, and increases the yield 5 to 15 bushels per acre. This has been proved over and over by the Experiment Stations and by thousands of farmers.

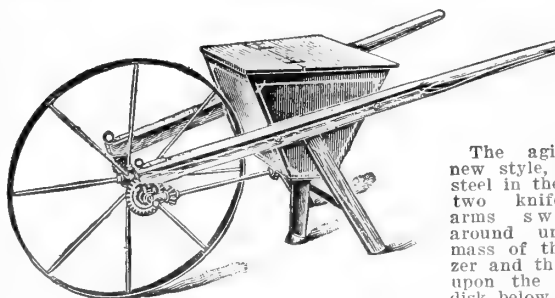
SINGLE SCREEN.

List Price, \$11.00 Dozen. Our Special Price, 75c. Each.

DOUBLE SCREEN,

List Price, \$18.00 Dozen. Our Special Price, \$1.25 Each.

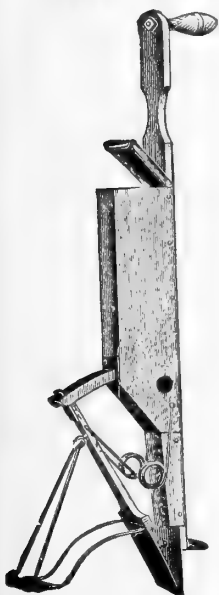
BALTIMORE PEA & FERTILIZER DRILL



The agitator is new style, being of steel in the form of two knife-shaped arms sweeping around under the mass of the fertilizer and throwing it upon the revolving disk below.

A shut-off has lately been added, whereby the waste fertilizer is stopped when turning at ends of rows. As shown in cut, loops are bolted to frame for the purpose of attaching a horse. Excellent for sowing fodder corn or ensilage. List Price, \$10.00; Our Special Price, \$6.75.

GRITCO HAND CORN PLANTER



In the Gritco there is no chance of cracking the corn, beans or other delicate seed, because of the Chinese bristle brush cut-off. No casting about the planter. The stamped steel slide is formed on a segment of the circle, whose center is the pivot of the blades. Means are provided to plant pumpkin seed at the same time with the corn. Slide quickly adjusted for different sized seeds. Galvanized iron hopper, smooth, polished hardwood handle. List, doz., \$18.00. Retail, each, \$1.25.

AMERICAN HAND CORN PLANTERS

Are fitted with Sheffield's famous patent adjustable seed disc and spring brass cut-off. The disc revolves similar to disc used in horse planters, and is one of the best finished and most accurate dropping discs ever used in corn planters of any description. List, doz., \$30.00. Retail, each, \$1.75.

ACME ROTARY AUTOMATIC HAND CORN PLANTER

ITS ROTARY SLIDE has a motion two ways—back and forth. It prevents skips. No matter how short the stroke, the pocket is pushed into the corn and back into the conveyor tube.

This motion is positive. It breaks up all bridging and fills the pocket uniformly—it counts the kernels for each drop.

List, doz., \$28.00. Retail, each, \$1.50.

CHECK-ROWER WIRE

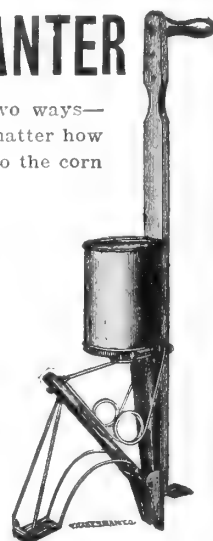
For All the Leading Planters



Carry in stock the following sizes:

3 ft., 3 ft. 2 ins., 3 ft. 4 ins., 3 ft. 6 ins., 3 ft. 8 ins., 3 ft. 10 ins. and 4 ft.

The above comes in 10, 20, 40 and 80-foot rolls. Per Rod, List, 7c.; Retail, 5c.



JANESVILLE CORN PLANTER SHAFT DRIVE

The Janesville Planter is made adjustable in width 3 feet to 4 feet. This corn planter was developed so as to retain a high average per cent. of number of kernels that one desired to plant in a hill, and can be instantly changed from 2, 3 or 4 kernels.

1. Convertible drop—edge or flat. This feature was devised to meet the condition where a farmer on occasion may not care to take the time to select his seed corn.

2. Automatic throw-off to wire simplifies the operation of machine.

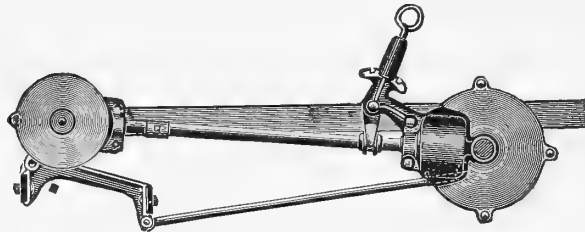
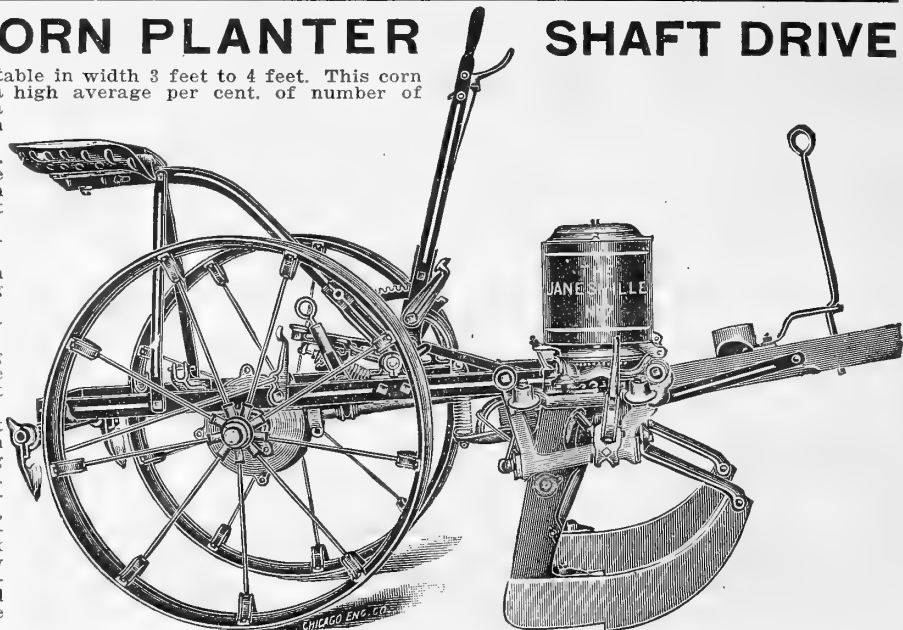
3. Automatic distribution of wire on reel—another labor- and time-saving feature.

4. Gear drive planters with adjustable drop.

A steel chain is attached to raising lever in such way that it can be made automatic in the operation, or set so that operator releases wire at his will.

Through the improved construction it is possible for operator to change from hill drop to drill drop without leaving his seat, or even without stopping team. A combined foot drop and drill drop attachment is placed to rocker shaft, which enables operator, by simply pressing this lever by the center, to lock valves in planter opening, and throw clutch into gear so it will run continuously and, of course, drill. When used as a foot drop simply do not press the lever down so far.

Valves on Janesville Planter are so placed that there is no possibility of mixing the hills. Upper valve is located so close to seed plate that it cannot get out of time, and lower valve is so constructed that it can free itself readily from dirt or trash that may get into it. The valve movement ensures your being always in check whether you drive fast or slow, and rows will be straight. The force feed takes care of increased momentum in fast driving. Change from edge drop to flat drop is effected by simply altering seed plates. Change from hilling to drilling is made by throwing clutch in gear with lever. Lastly, without stopping team, 2, 3 or 4 kernels may be dropped to a hill by operating small hand lever within easy reach. A rod running from rear axle to front frame throws machine out of gear when raised at ends to turn around.



Showing the Shaft Drive and Quick Change on the No. 7 Planter, to plant 2, 3 or 4 grains in a hill without changing the plates. This great convenience saves time, and allows you to plant the different number of grains in different portions of the field without stopping.

	List Price.	Our Special Price.
No. 7 Gear Drive Plain Planter with Check Rower, 80 rods Wire, Edge Drop only.....	71.00	41.25
No. 7 Gear Drive Plain Planter, with Check Rower, 80 Rods Wire, with both Edge and Flat Drop	73.00	43.75
No. 7 Gear Drive Plain Planter with either Edge or Flat Drop Plates without Check Rower	61.00	36.25
No. 8 Plain Planter Drill Drop only without Check Rower	59.00	35.00
For Disk Planters add to above.....	2.00	1.00
Fertilizer Attachment for any of the above add	20.00	10.00

PLANTER RUNNER SHOE



Intended for use on most old worn-out runners where a new runner cannot be obtained, and it will answer the purpose, but where new runners can be had it is much preferable.

Per Pair, List Price, \$2.20. Our Special Price, \$1.50.

SEED CORN.

On page 16 you will find listed with prices the finest varieties of Sweet Corn that can be procured.

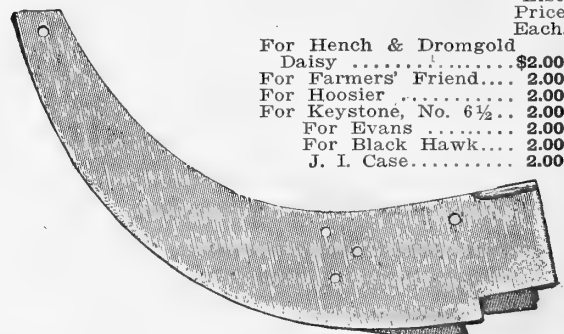
Our Field Seed Corn listed on page 42 is selected with the utmost care, and it will pay you to buy your seed from us, as the seed is a very important factor in the yield of the crop.

CORN PLANTER RUNNER

In ordering Planter Runners always state, as near as possible, the year Planter was made; whether steel or wood frame; or, better still, a diagram showing position of hole and size of bend.

RUNNERS FOR SINGLE ROW PLANTERS.

	List Price.	Our Special Price.
For Hensch & Dromgold		
Daisy	\$2.00	\$1.25
For Farmers' Friend.....	2.00	1.25
For Hoosier	2.00	1.25
For Keystone, No. 6 1/2 ..	2.00	1.25
For Evans	2.00	1.25
For Black Hawk.....	2.00	1.25
J. I. Case.....	2.00	1.25



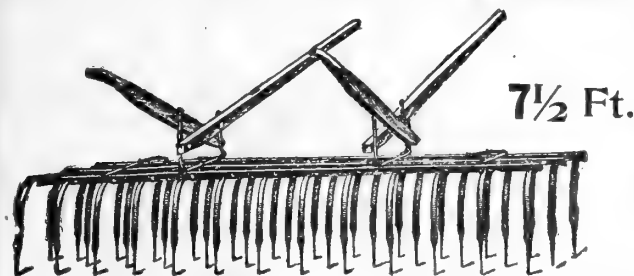
FOR DOUBLE ROW PLANTERS

	List Price Per Fr.	Our Special Price Per Fr.
For Janesville, Nos. 1, 5, 7 and 8.....	\$4.00	\$3.00
" Black Hawk, No. 1.....	4.00	3.00
" Black Hawk, No. 4.....	4.00	3.00
" Black Hawk, No. 5.....	4.00	3.00
" Deere, No. 8.....	4.00	3.00
" Deere, No. 9.....	4.00	3.00
" J. I. Case.....	4.00	3.00
" Evans' Steel Frame.....	4.00	3.00
" Evans' Wood	4.00	3.00
" Evans' Simplex	4.00	3.00
" Superior	4.00	3.00
" Hoosier, No. 10.....	4.00	3.00
" Hoosier, No. 11.....	4.00	3.00
" Tiger, No. 4.....	4.50	3.25
" Tiger No. 10.....	4.50	3.25
" Bullseye	4.50	3.25
" Union Victor	4.00	3.00
" Barlow, Wood Frame.....	5.00	3.50

WEEDERS AND ATTACHMENTS

By the use of Weeders much time and labor are saved and better crops grown. These weeders or shallow cultivators, as they are sometimes called, can be worked in dry or wet weather. They will not cut the roots of the crop, but cultivate just deep enough to retain the moisture where it is most needed. Use a weeder early and often, and you will be surprised at the results. It is a good policy to use the weeder after a heavy rain, when the ground has been beaten down, to avoid the forming of a hard crust which retards the growth and development of the crops.

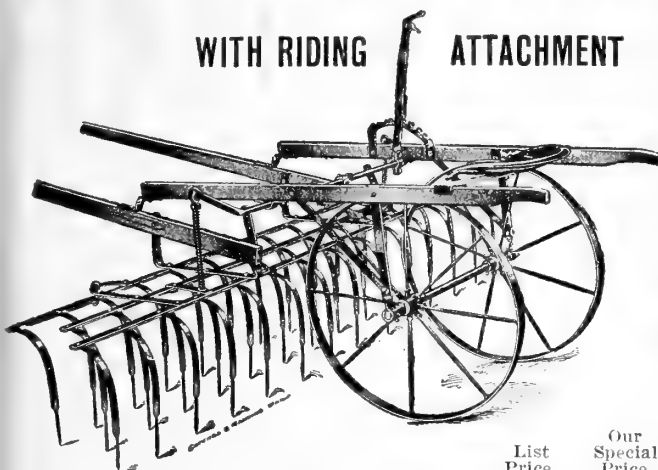
GRITCO FLAT TOOTH WEEDER



	List Price.	Our Special Price.
7 1/2-foot Gritco Flat Tooth Weeder.....	\$12.00	\$8.00

GRITCO FLAT TOOTH WEEDER

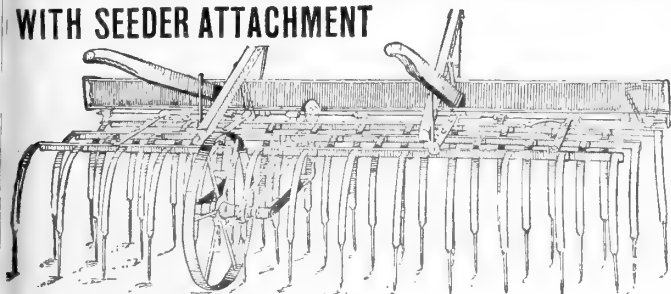
WITH RIDING ATTACHMENT



	List Price.	Our Special Price.
7 1/2-ft. Gritco Weeder, with Riding Attachment...	\$30.00	\$20.00
12-ft. Gritco Weeder, with Riding Attachment...	45.00	27.50

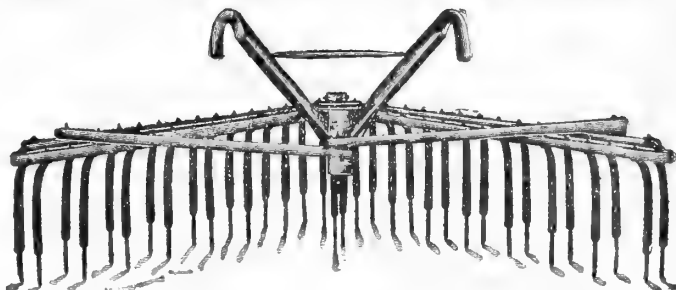
GRITCO FLAT TOOTH WEEDER

WITH SEEDER ATTACHMENT



	List Price.	Our Special Price.
7 1/2-ft. Gritco Weeder, with Seeder Attachment...	\$33.50	\$21.00
7 1/2-ft. Gritco Riding Weeder, with Seeder Attachment	50.50	33.00
12-ft. Gritco Riding Weeder, with Seeder Attachment	66.50	41.00

KEYSTONE ADJUSTABLE WEEDER



The Adjustable Weeder has, perhaps, a slight advantage over the straight bar Weeder, inasmuch as it can be narrowed to work in between the rows after it is impossible to work any other Weeder or style of Cultivator in the field. Adjusts from 7 1/2 ft. to 30 inches Diamond Points.

Keystone 7 1/2-ft. Adjustable flat tooth Weeder...	\$17.50	\$11.50
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KEYSTONE ADJUSTABLE WEEDER



CUT SHOWS SEEDER ATTACHMENT AS APPLIED TO KEYSTONE ADJUSTABLE WEEDER.

	List Price.	Our Special Price.
7 1/2-ft. Weeder, with Seeder Attachment.....	\$35.00	\$24.50

HALLOCK WEEDER

	List Price.	Our Special Price.
Hallock 7 1/2-ft. Walking Weeder.....	\$13.50	\$9.00
Hallock 10 1/2-ft. Walking Weeder.....	28.00	18.00
Hallock 12-ft. Walking Weeder.....	30.00	20.00

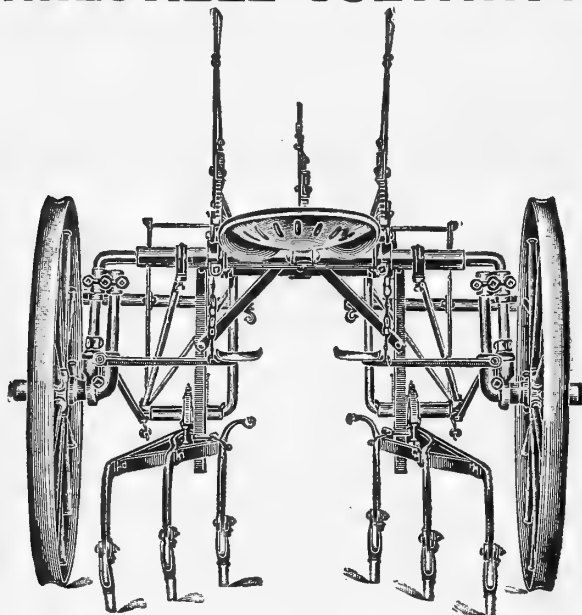
HALLOCK WEEDER WITH RIDING ATTACHMENT

	List Price.	Our Special Price.
Hallock 7 1/2-ft. Riding Weeder.....	\$34.50	\$22.50
Hallock 10 1/2-ft. Riding Weeder.....	52.00	33.00
Hallock 12-ft. Riding Weeder.....	54.00	35.00

HALLOCK WEEDER WITH SEEDER ATTACHMENT

	List Price.	Our Special Price.
Hallock 7 1/2-ft. Weeder, with Seeder Attachment...	\$36.00	\$23.50
Hallock 10 1/2-ft. Riding Weeder, with Seeder Attachment	72.50	46.50
Hallock 12-ft. Riding Weeder, with Seeder Attachment	75.50	48.50

BIG JANESVILLE CULTIVATOR



This Cultivator is built to meet the demand for an adjustable arch, pivot axle cultivator. It is the quickest dodger in crooked corn of any cultivator of its class.

This machine can be successfully operated by any youth able to drive in a corn field.

On side hills, heavy soil or crooked rows this machine is especially recommended on account of its extreme ease in operation.

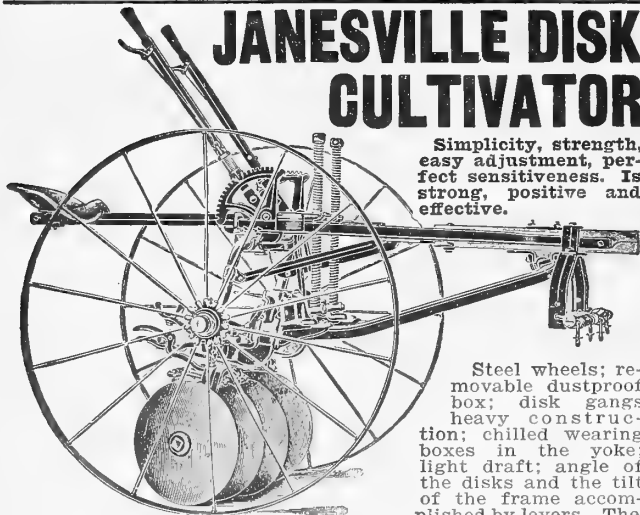
The wheels are 42 inches high with 2½-inch concave tires. Weight about 475 pounds.

6-Shovel Pin Hoe.....\$30.00 6-Shovel Spring Hoe....\$33.50

8-Shovel Pin Hoe..... 31.50 8-Shovel Spring Hoe.... 36.75

The above are equipped with 3-inch shovels only.

JANESVILLE DISK CULTIVATOR



Simplicity, strength, easy adjustment, perfect sensitiveness. Is strong, positive and effective.

Steel wheels; removable dustproof box; disk gangs heavy construction; chilled wearing boxes in the yoke; light draft; angle of the disks and the tilt of the frame accomplished by levers. The

one machine that is imitated by other Disk Cultivator manufacturers.

A hand lever, operated without leaving the seat, sets the gangs at any desired cutting angle and enables the driver to throw as much dirt to the plants as he desires.

You can run it up close to the young plant without cutting off or wounding the lateral roots.

The Janesville cuts and buries trash, vines, stalks, and kills the weeds.

Price, Rigid Pole.....\$35.00

Price with Pivot Axle..... 35.00

Levelers, per pair..... 2.00

Four-shovel Attachment Pin Hoe..... 7.50

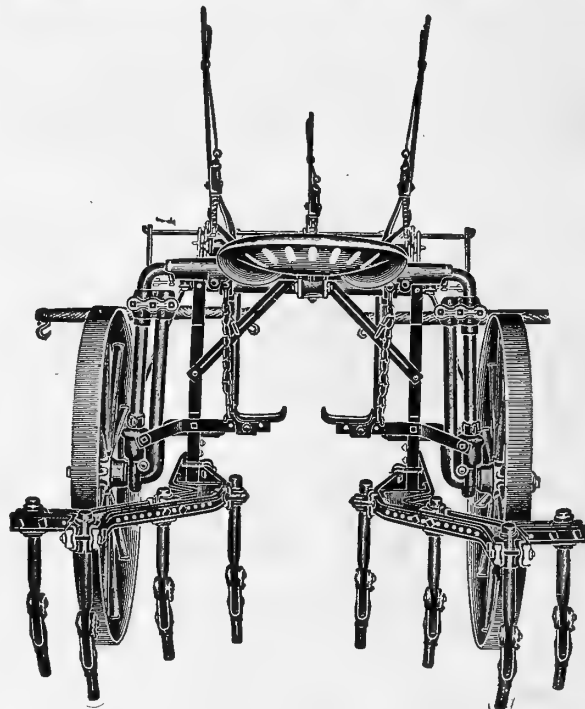
Six-shovel Attachment Pin Hoe..... 8.50

Four-shovel Attachment Spring Trip..... 9.50

Six-shovel Attachment Spring Trip..... 11.00

16-in. disks and thimble for attachment to gangs, pair... 4.00

LITTLE JANESVILLE CULTIVATOR



In the construction of this Cultivator one of the most important things is to get an implement to use in all widths of rows.

The adjustment is such it is possible to cultivate the growing crops planted in rows as close as 24 inches. Being a low wheel, and the shovel gangs extending out back of the wheel, one is able to narrow the frame so as to set the wheels down to a distance of 36 inches and out to 48 inches.

The extension shovel gangs are made of two bars of high carbon steel, with a series of holes placed in the side, so as to locate the shovel standards, at different points, and enable one to use the same gang bars in using 2, 3 or 4 shovels on a side, as one may desire.

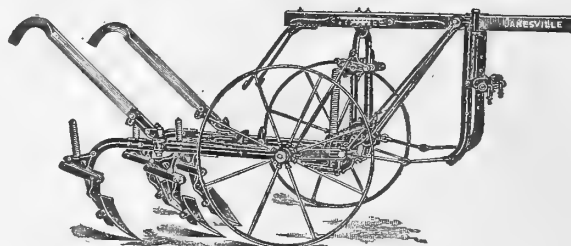
The wheels are 32 inches in diameter with 2½-inch concave tires, and are very strongly constructed. Weight about 475 lbs.

6-Shovel Pin Hoe.....\$28.25 6-Shovel Spring Hoe....\$32.00

8-Shovel Pin Hoe..... 30.00 8-Shovel Spring Hoe.... 35.00

The above are equipped with 3-inch shovels only.

JANESVILLE BALANCE FRAME WALKING CULTIVATOR



The Janesville Balance Frame Cultivator is a well-braced, well-balanced, strongly constructed machine.

It is the practical efficiency of Janesville Cultivators in all kinds of work that, above all, recommend them to the farmer.

The gang may be slipped in or out on the front axle sleeve, and this permits the gangs to be placed as close or as far away from the rows as desired. Weight about 300 lbs.

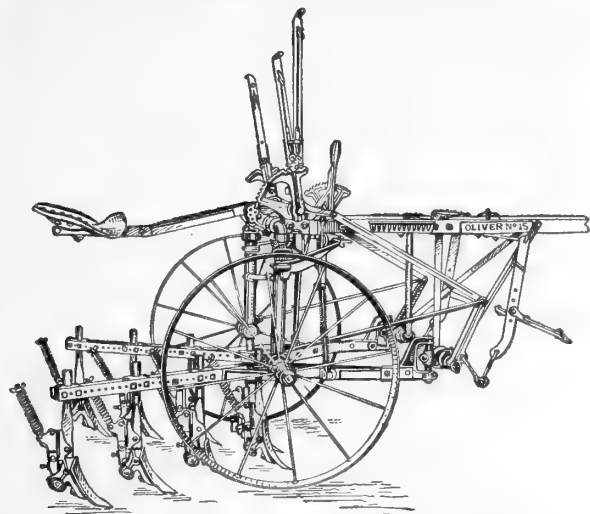
4-Shovel Pin Hoe.....\$19.00 4-Shovel Spring Hoe....\$21.50

6-Shovel Pin Hoe..... 20.75 6-Shovel Spring Hoe.... 24.00

8-Shovel Pin Hoe..... 21.50 8-Shovel Spring Hoe.... 26.25

The above are equipped with 3-inch shovels only.

OLIVER RIDING CULTIVATOR No. 15



The No. 15 is well constructed of steel and malleable parts, and it has all the adjustments necessary to perform the required work. When you look at the machine you will agree with us that it will do the work well, and it is amply strong to stand up under the work.

The No. 15 has a balance frame and the horse lift. The tread of the wheels can be narrowed down for cultivating rows that are planted close together, and can be widened out to give more room for steering the gangs and wheels when the rows are crooked or out of check. The frame does not project over the wheels when the wheels are set for narrow track. There is ample clearance of the arch. The No. 15 has pole adjustment up and down, so that the frame is always level, regardless of the size of the team. The Pivot axles are equipped with ball-bearings, which makes this cultivator easy to operate. The No. 15 is equipped with three levers for operating the gangs. The long lever raises and lowers both gangs. The two short levers are used to regulate the depth of each gang, or raising the gangs independently to free the shovels of trash or pass over an obstruction. The short lever directly in front of the operator is used to widen or narrow the gangs.

	List Price.	Our Special Price.
No. 15C—6 Shovel Pin Hoe.....	\$45.00	\$33.75
No. 15LP—8 Shovel Pin Hoe.....	45.00	33.75
No. 15DS—6 Shovel Spring Hoe.....	49.00	36.75
No. 15LY—8 Shovel Spring Hoe.....	50.00	37.50

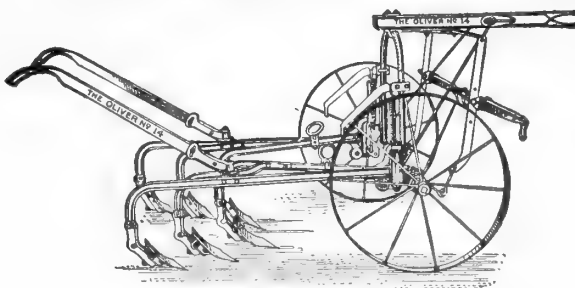
POTATO DIGGER



This is a tool that has won great favor with the potato growers everywhere. It is an easy-running tool, and one that saves a great deal of time. It throws all of the potatoes out of the ground without cutting, and leaves them clean and whole on top of the ground. Has extra heavy steel beam, with high arch to prevent clogging. Long adjustable handles. Double gauge wheel following the furrow on either side of the hill, and adjustable gauge wheel running on the solid ground in the rear.

No. Z1—Digger with Double Front Gauge Wheel.....	\$8.50
No. Z2—Digger with Single Front Gauge Wheel.....	8.00

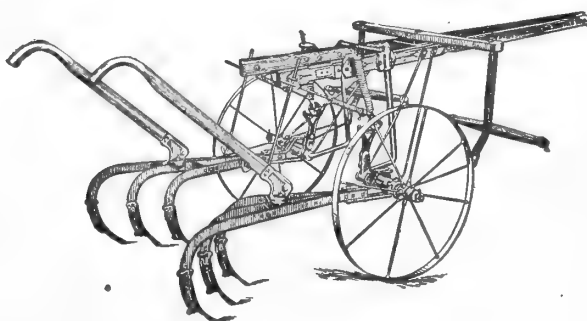
OLIVER WALKING CULTIVATOR No. 14



There are many walking cultivators on the market whose combined merits would, if embodied in a single machine, no doubt result in a fine implement, but it is left for the Oliver No. 14 to present the majority of existing advantages besides offering some entirely new features. The axles are continuous, and by virtue of the solid clamp and solid brace fastening below, the Oliver is the most rigid and strongest machine of the kind ever offered. Compare this construction with others where braces terminate in loose eyes around the axle, or when upper ends of axles are held in loose sockets with set screws. The tongue is perfectly balanced, the wheels are strong, fitted with 2-inch tires and dust-proof hubs. The hitch is short, and this is the only cultivator with eveners behind the point on pole where arch braces fasten. The spring lift is adjustable up and down on the arches.

	List Price.	Our Special Price.
No. 14A—4-Shovel Pin Hoe.....	\$22.50	\$18.00
No. 14C—6-Shovel Pin Hoe.....	23.50	18.80
No. 14L—8-Shovel Pin Hoe.....	23.50	18.80

GRITCO WALKING CULTIVATOR



The gangs, as will be seen, are made of three pieces of 1½x7-16-inch Bessemer Steel. This Cultivator is furnished with double springs, enabling the operator to take off the entire weight of the gangs so that the weight of the gangs themselves will alone be the weight for the forcing of the shovels into the ground, or, on the contrary, you could put so much weight on the gangs as to almost make a Turn Plow out of the Cultivator, depending, of course, upon the condition of the soil.

This Cultivator is furnished with four, six or eight shovels. With each Cultivator we send two 1¼-inch bull tongues, one pair of hilling shovels, or forrowing-out shovels, as may be desired. We furnish it in Pin or Spring Hoe and Spring Trip, although we could furnish the Spring Trip Attachment at any time should you desire a change from Pin to Spring Hoe.

4 Shovels, Pin Hoe.....	\$18.50	4 Shovels, Spring Hoe..	21.25
6 Shovels, Pin Hoe.....	18.50	6 Shovels, Spring Hoe..	22.50
8 Shovels, Pin Hoe.....	20.75	8 Shovels, Spring Hoe..	25.75

Lord Baltimore Cultivator and Horse Hoe—FIG. 20

Equipped with our latest improved **Hollow Pressed Steel Standards, Lever Expander** and **Outside Handle Braces**. Extra high **Steel Frame**. Standards are interchangeable, there being no "right" nor "left" as in the solid standards in general use.



FIG. 21.

Clevis Hooks for 5-tooth Cultivators. **List, 20c.** Our **Special Price, 15c.**



Lord Baltimore Cultivator & Horse Hoe

FIG. 21.

The same tool as shown in Fig. 20, with the addition of the **Lever Wheel Attachment and Rear Wheel**. **Depth Regulator**. **Weight, 80 lbs.** **List Price, \$10.50.** Our **Special Price, \$7.00.**

These Cultivators can be contracted to about 9 to 10 inches, and expanded to about 26 inches.

WEIGHT,
42 lbs.

wherever sold it becomes a favorite. Both have No. 89 plates.

LORD BALTIMORE CULTIVATOR Fig. 22

	List Price.	Special Retail Price.
Cultivator and Horse Hoe, no Lever	\$7.20	\$4.75
Cultivator, Plain	6.50	4.25

Oriole and O.D. have No. 89 plates.

ORIOLE AND OLD DOMINION CULTIVATOR

The difference between the **Oriole** and **Old Dominion** Cultivators is: The first has bent frame and the other has straight frame. The **Old Dominion** Cultivator is sold principally in Virginia and the South, and

	List Price.	Special Price.
Cultivator, plain	\$4.20	\$2.75
Cultivator with Lever	4.70	3.25

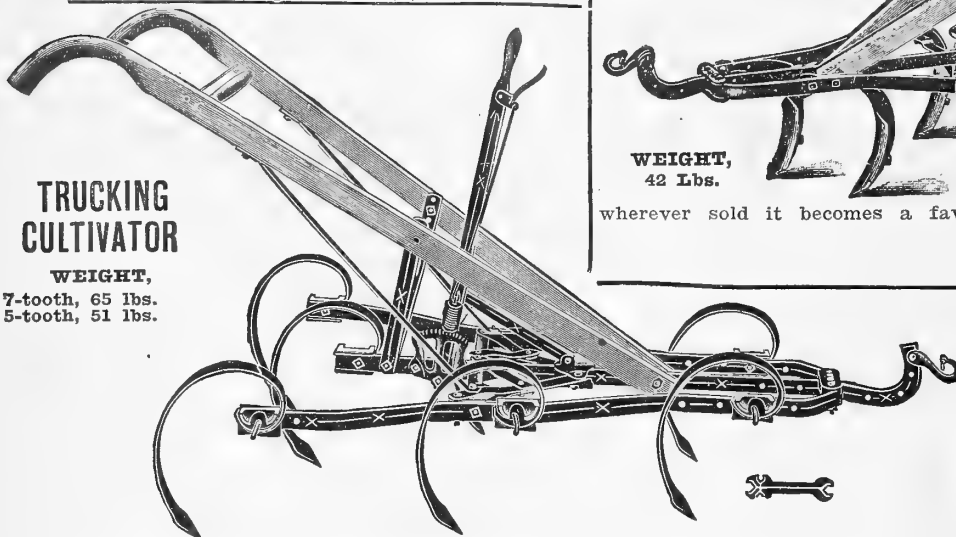
Horse Hoe Attachments, complete, per set of three pieces	2.00	1.25
Wheels for Cultivators, each .....	.80	.50

Fig. 24—7-Tooth Cultivator with Channel Frame and Lever	6.50	4.50
Same with Lever and Wheel	7.50	5.00

TRUCKING CULTIVATOR

WEIGHT,

7-tooth, 65 lbs.
5-tooth, 51 lbs.



Our five- and seven-tooth **Expanding Cultivators**, fitted with **Spring Teeth**, and **Lever**, are especially adapted for cultivating in orchards, potatoes, beans, peas or any grain planted in single rows. It is operated by a lever for wide or narrow rows, and can be changed almost instantly and while in operation.

5-Tooth Cultivator with Lever.... List Price, \$6.50. Our Special Price, \$4.00.
7-Tooth Cultivator with Lever..... List Price, 8.00. Our Special Price, 5.00.

The teeth have four positions—First, position shown in cut, in which case can be used for working very close to small plants. Thoroughly pulverizes, throws no dirt on plants. Second, position as a straight-tooth harrow. Third position, teeth can be arranged as a smoothing harrow, with sharp points down, in order to cut and level surface. Fourth position, teeth can be set with sheared end down, being less liable to injure young plants.

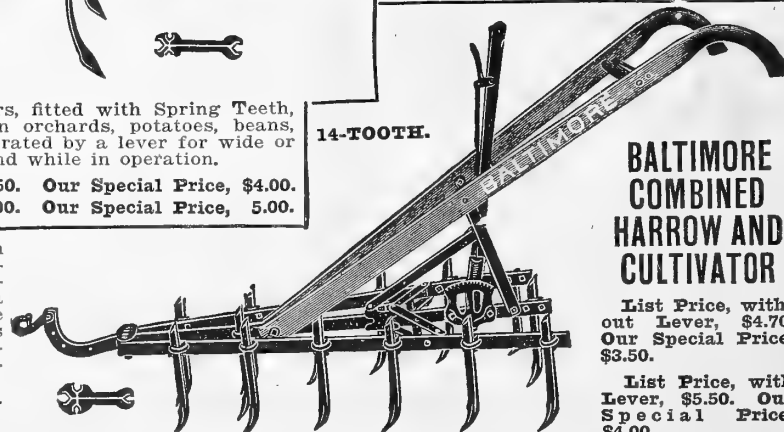
Can be contracted to 9 inches and expanded to 21 inches. **Weight, 51 pounds.**

14-TOOTH.

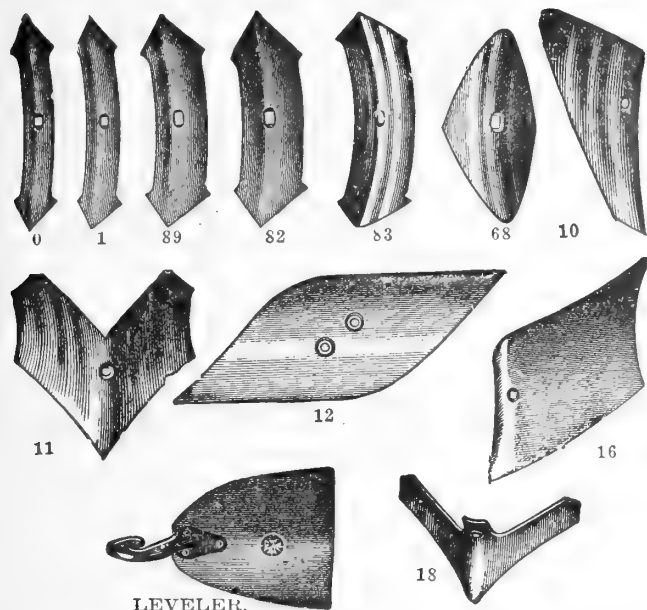
BALTIMORE COMBINED HARROW AND CULTIVATOR

List Price, without Lever, \$4.70. Our **Special Price, \$3.50.**

List Price, with Lever, \$5.50. Our **Special Price, \$4.00.**



Cultivator and Horse Hoe Steels



	List Price.	Our Special Price.
No. 0—1½-in. Diamond Point Steel.	\$10.00 per 100	\$.07½ ea.
No. 1—2-in. Diamond Point Steel.	10.50 per 100	\$.08½ ea.
No. 89—2½-in. Diamond Point Steel.	10.10 per 100	\$.09½ ea.
No. 82—3-in. Diamond Point Steel.	11.00 per 100	\$.09 ea.
No. 83—3½-in. Diamond Point Steel.	13.20 per 100	\$.10 ea.
No. 84—4-in. Diamond Point Steel.	14.00 per 100	\$.11 ea.
No. 67—Oval or Light Jersey Pt. steel	13.00 per 100	\$.09 ea.
No. 68—Oval or Jersey Point Steel.	14.50 per 100	\$.10 ea.
No. 10—Turn Shovel, right or left...	.24 each	.15 ea.
No. 16—Turn Shovel.	.22 each	.15 ea.
No. 11—6-in. Sweep, about 7-in. across	.22 each	.15 ea.
No. 11—8-in. Sweep, about 11-in. across	.26 each	.20 ea.
No. 12—Horse Hoe, Steel only, without shank, R. & L.	.26 each	.20 ea.

	List Price.	Our Special Price.
Horse Hoe, Steel, with Shank or Standard, per pair	\$1.80	\$1.15
Horse Hoe Attachments complete, per set of three pieces.	2.00	1.25
No. 18—8-in. Sweep, each.	.26	.20
No. 18—10-in. Sweep, each.	.28	.22
No. 18—12-in. Sweep, each.	.32	.25
No. 18—15-in. Sweep, each.	.38	.30
Wheels for Cultivators, each.	.80	.50
Levelers for Cultivators, each.	1.50	1.00
Cultivator Plate and Frame Bolts, per 100.	2.10	ea. .03
Wheel Cultivator Clamps, each.	.40	.30
Set screw Cultivator Clamps, each.	.36	.25
Teeth for Baltimore Combined Harrow and Cultivator, Diamond Shaped Steel, each.	.10	.08
Cultivator Handles, finished with rod and round, per pair.	1.20	.75
All of the above goods are of best steel and highly polished.		

Steels for Hench and Drumgold's Riding Cultivators and Champion Walking Cultivators

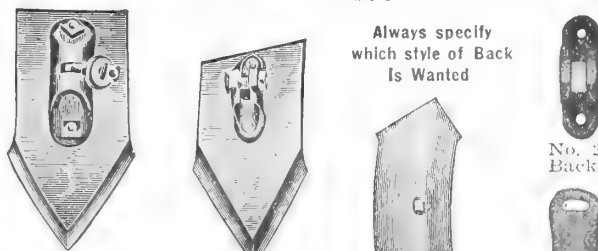
	List Price.	Our Special Price.
1½-inch Plain Shovel, O. S., without revolving backs.	.24	\$.18
2½-inch Plain Shovel, O. S., without revolving backs.	.28	.20
2½-inch Plain Shovel, N. S., with revolving backs.	.35	.25
3-in. Plain Shovel, O. S., without revolving backs.	.30	.22
3-in. Plain Shovel, N. S., with revolving backs.	.40	.28
3½-inch Plain Shovel, O. S., without revolving backs.	.35	.25
3½-inch Plain Shovel, N. S., with revolving backs.	.45	.30
Hilling Shovels, O. S. and N. S., right and left hand, each.	1.00	.65

Steels for Iron Age Riding Cultivators

	List Price.	Our Special Price.
No. 90—1¼ inches wide, each.	\$.16	\$.12
No. 91—2½ inches wide, each.	.18	.15
Fig. 117—Plows, R. & L., per pair.	1.20	.75

STEELS FOR RIDING CULTIVATORS

With and Without Backs
For Round and Open Foot Shanks. For Brown, Brown-Manly, Buckeye and Deere Cultivators



No. 5—Back for convex or open foot shanks. The steel shown with No. 5 back is 5x11 straight top.

No. 2—Back for round shanks. The steel shown with No. 2 back is 5x11 flared top.

This cut shows 3x10 reversible steel.

In ordering 5x11-inch Steels in less than sets of four, always specify whether wanted with straight top or flared top, and right or left hand.

WITH BACKS.

	List Price.	Our Special Price.
1½x10 inches, Reversible.	\$.40	\$.25
2 x10 inches, Reversible.	.50	.30
2½x10 inches, Reversible.	.55	.35
3 x10 inches, Reversible.	.60	.40
3½x10 inches, Reversible.	.65	.45
5 x11 inches.	.75	.50
1½x10 inches, Bull Tongues.	.50	.35
2 x10 inches, Bull Tongues.	.55	.40
2½x10 inches, Bull Tongues.	.60	.45
3 x10 inches, Bull Tongues.	.65	.50

WITHOUT BACKS, WITH ONE BOLT HOLE.

	List Price.	Our Special Price.
1½x10 inches, Reversible.	\$.20	\$.15
2 x10 inches, Reversible.	.24	.18
2½x10 inches, Reversible.	.28	.20
3 x10 inches, Reversible.	.30	.22
3½x10 inches, Reversible.	.32	.25
5 x11 inches.	.45	.35

BLANKS NOT BORED.

	List Price.	Our Special Price.
5 x11 inches.	\$.40	\$.30
1½x10 inches, Bull Tongues.	.30	.25
2 x10 inches, Bull Tongues.	.30	.25
2½x10 inches, Bull Tongues.	.30	.25
3 x10 inches, Bull Tongues.	.30	.25

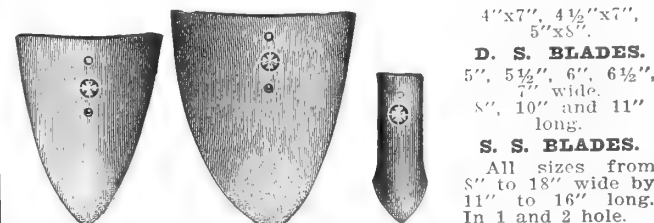
Spike Harrow Teeth List Price, per pound.....7c.
Our Special Price, per pound.....5c.



Special Price in Quantity.

STEELS SIZES SHOVEL PLOW STEELS

For Single and Double Shovel Plows.



D. S. BLADES.

4"x7", 4½"x7", 5"x8"

S. S. BLADES.

5", 5½", 6", 6½", 7", 8", 10" and 11" long.

S. S. BLADES.

All sizes from 8" to 18" wide by 11" to 16" long. In 1 and 2 hole.

CALF TONGUES—1½", 1", 2" wide by 8" long.
BULL TONGUES—1½", 2", and 3" wide by 11" long.

Above can be furnished in 1 or 2 hole.

Full and complete line of polished steels for Single and Double Shovel Plows made in both one and two-hole styles. Genuine Malta Double or Single Shovel Plow Steels per pound.....\$.08½
Farmers' Favorite Triple Shovel Plow Steels, per pound......08½
Farmers' Favorite Single and Double Shovel Plow Steels, per pound......07½
Bolts for Shovel Plow Blades, each......05
Four Shovel Plow Steels, 3-in., each......07
Four Shovel Plow Steels, 3½-in., each......08
Shovel Plow Fender......35

SHOVEL PLOW HANDLES

Finished, for Single or Double Shovel Plows, complete with round and rod, per set.....\$.75
Finished without round and rod, per pair......65
Finished and bored, right and left, each......35

SHOVEL PLOWS

Farmers' Favorite, single-shovel Plow.....\$2.25
Farmers' Favorite, double shovel Plow..... 2.50

The cost of these goods is not so much in the finish as in the construction and material, these being the principal requisites in an implement.

Triple-shovel Plows, regular.....\$3.00
Extra Heavy three-shovel Plows..... 3.25

For shovel plow steels see page 112.

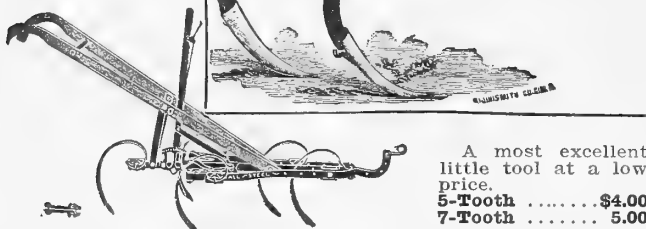
The Original and Genuine "Malta" Iron Beam Single and Double Shovel Plows

Has 1 1/4 x 3/4-inch Beam.

PRICE.

Double Shovel Plow...\$3.25
Single Shovel Plow.... 2.75

**SEVEN-TOOTH
SPRING TOOTH
CULTIVATOR
WITH LEVER.**



A most excellent little tool at a low price.
5-Tooth\$4.00
7-Tooth 5.00

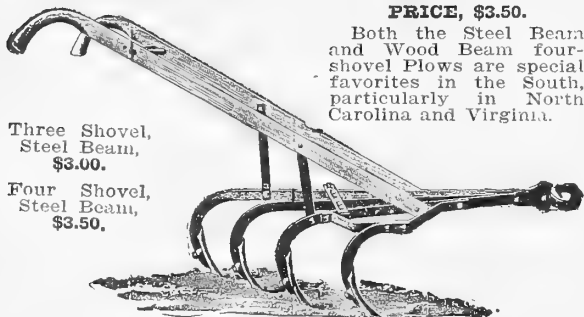
Gritco Steel Beam Four Shovel Plows

PRICE, \$3.50.

Both the Steel Beam and Wood Beam Four-shovel Plows are special favorites in the South, particularly in North Carolina and Virginia.

Three Shovel, Steel Beam, \$3.00.

Four Shovel, Steel Beam, \$3.50.



Gritco Wood Beam Four Shovel Plow

PRICE, \$3.00.

Both Wood and Steel Beam are furnished with reversible plates.

Four Nut Shovel Plow Spreader Bolts

For Beams and Handles, each.....25c.
Shovel Plow Clevis, 20c.

Gritco Wood Beam Diverse Cultivators

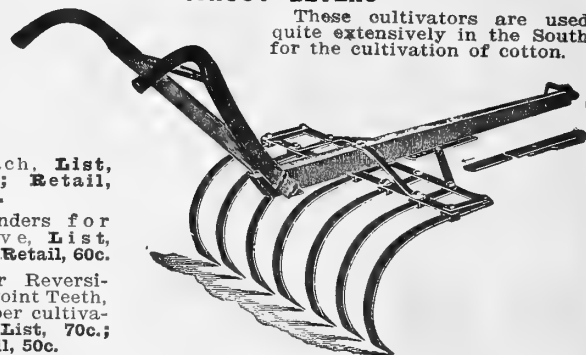
WITHOUT LEVERS

These cultivators are used quite extensively in the South for the cultivation of cotton.

Each, List, \$6.00; Retail, \$4.00.

Fenders for above, List, 90c.; Retail, 60c.

For Reversible Point Teeth, add per cultivator, List, 70c.; Retail, 50c.



Gritco Steel Beam Diverse Cultivators

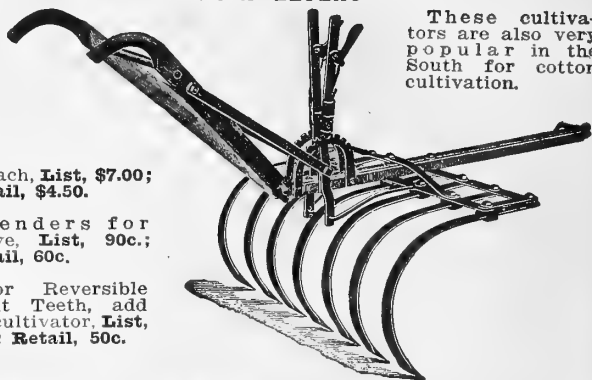
WITH LEVERS

These cultivators are also very popular in the South for cotton cultivation.

Each, List, \$7.00; Retail, \$4.50.

Fenders for above, List, 90c.; Retail, 60c.

For Reversible Point Teeth, add per cultivator, List, 70c.; Retail, 50c.



STEEL BEAM MIDDLE BURSTER

**SHARES FOR
MIDDLE BURSTER**

Cuts	List Price.	Our Special Price.
8-in.	\$1.30	\$.80
10-in.	1.60	1.00
12-in.	1.90	1.20
14-in.	2.20	1.40
16-in.	2.70	1.75

The Beam has a high throat, and wings are shaped especially for black, waxy lands. Wings and points are of high carbon steel. Points have reinforced nose. A strong, serviceable tool for two, four or six horses.

We can furnish them as follows:

	List Price.	Our Special Price.
Cuts 8 inches; weight, 77 pounds.....	\$11.00	\$7.00
Cuts 10 inches; weight, 82 pounds.....	11.50	7.50
Cuts 12 inches; weight, 87 pounds.....	13.00	8.25
Cuts 14 inches; weight, 93 pounds.....	14.00	8.75
Cuts 16 inches; weight, 98 pounds.....	15.30	9.50

Rudders, each, List, 75c.; Our Special Price, 45c.

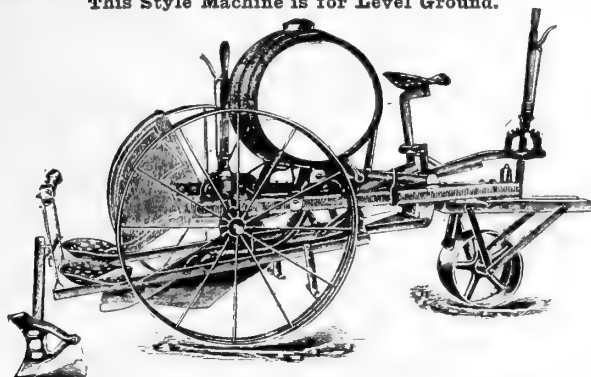


THE IRON AGE CULTIVATORS

	Price.
Iron Age Cultivator, plain, with Clamp Expander.....	\$3.75
Iron Age Cultivator, with Lever.....	4.50
Iron Age Horse Hoe and Cultivator, plain.....	5.25
Iron Age Horse Hoe and Cultivator, with Wheel.....	6.00
Iron Age Horse Hoe and Cultivator, with Lever and Wheel.....	6.75

MODEL TRANSPLANTER

This Style Machine is for Level Ground.



Used especially for transplanting tobacco, cabbage, strawberries, ginseng, horseradish, nursery stock, hops, sweet potatoes, etc.

This transplanter does the work better than can be done by hand, and a greater proportion of the plants live and thrive because it waters the plants at the roots when the plants are set.

List Price, \$67.20; Our Special Price, \$55.00.

MASTERS' RAPID PLANT SETTER



All kinds of Plants, such as Cabbage, Tobacco, Tomatoes, Cauliflower, Strawberries, Sweet Potatoes, Sugar Beets, etc.. The only Hand Mechanical Plant Setter on the market; is built on scientific principles throughout. Its conical jaws are made of heavy sheet steel and the main body or water reservoir and plant tube of heavy tinned plate. The water valve is of brass with rubber packing. The valve rod and trip spring are of steel wire; thumb button and other fittings are also of brass. The machine is well put together with rivets and solder and should last for years.

Price, each, \$4.00.

TESTIMONIALS.

The Masters' Planter I purchased has worked very satisfactorily, and have obtained better results from the plants set out by your machine than from those planted by hand with season.

Fork, Md. F. E. Wright.

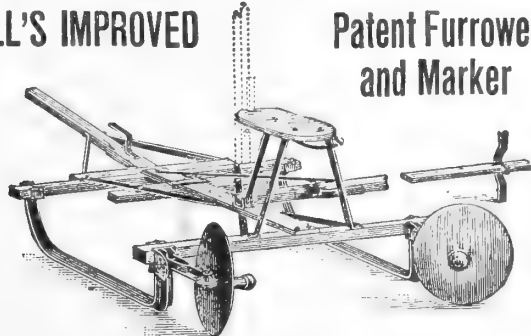
I bought one of Masters' Rapid Plant Setters and used it to great advantage that spring. This last spring I bought two more setters and find them satisfactory in every respect, saving labor, saving plants, with far better results than the best hand work. I would not do without the Setters for many times their cost.

Laurel, Del. Harvey W. Hastings.

\$4.00

DARNELL'S IMPROVED

Patent Furrower and Marker



Strong, light and durable. A half-dozen tools in one. Runs steadily and cannot be choked. Adjustable throughout. Broad runners of wrought T-angle iron with rib to prevent sliding on side hill. Revolving discs or furrows 15 inches in diameter, with chilled hub and steel axle.

Price, \$20.00.

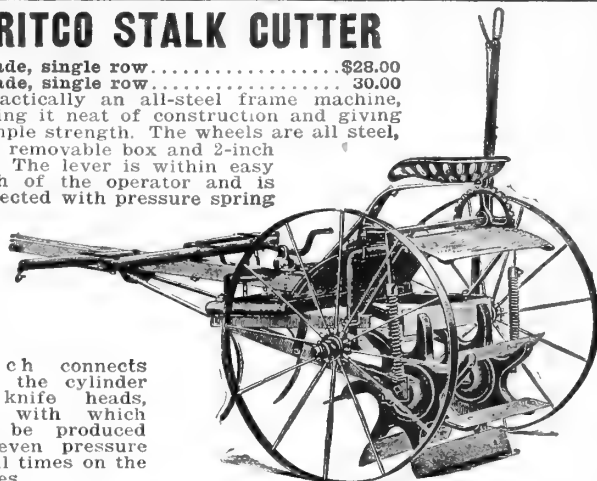
Neck Yoke and Whiffle Trees, \$25.00.

GRITCO STALK CUTTER

7-Blade, single row.....\$28.00

9-Blade, single row.....30.00

Practically an all-steel frame machine, making it neat of construction and giving it ample strength. The wheels are all steel, with removable box and 2-inch tire. The lever is within easy reach of the operator and is connected with pressure spring



which connects with the cylinder or knife heads, and with which can be produced an even pressure at all times on the knives.

No. 11.
Steel Frame.
Price, \$25.00.

GRITCO CORN HARVESTER



No. 1.
Wood Frame.
Price, \$22.50.

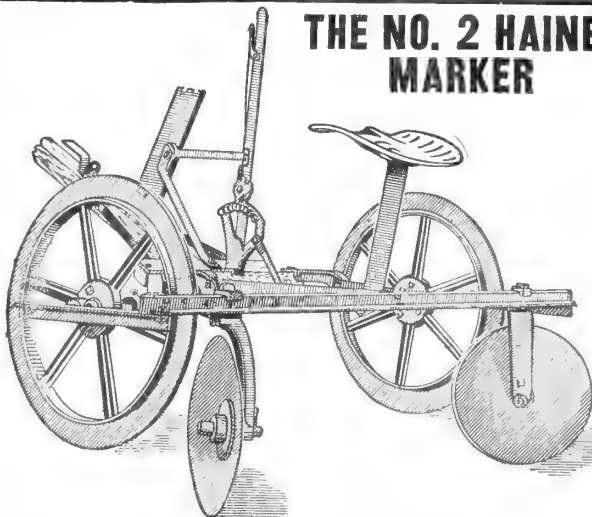
Automatic Knife Guard gives absolute protection to operators. Simple, thoroughly effective, never fails to work instantly. Mechanism extremely simple. Front lever is connected with a plate of steel under the wing which projects beyond all parts of knife. While at work operator holds down with his foot the lever which draws the guard in.

The Wings are independent of each other; quickly raised to pass obstructions. Knives are best grade tempered steel, making an upward shear cut.

The Frame is 28 inches wide; extreme width at widest point of knives, 63 inches; adapting machine to widest or narrowest rows. Frame can be raised or lowered at both front and rear.

Safety Shafts turn freely in any direction and provided with a stop which prevents horse from turning further than necessary. Seats are independent, each one being quickly raised or lowered.

THE NO. 2 HAINES MARKER



The Marker will open rows from 2 to 6 1/2 feet. By the use of the lever they can be opened any depth desired.

The Marker is light draft and easily controlled. It can be used for laying of rows, listing or covering. The Marker is equipped with marker pole, doubletrees and neckyoke.

Price..... \$28.00

CUTAWAY DOUBLE ACTION HARROW
REGULAR

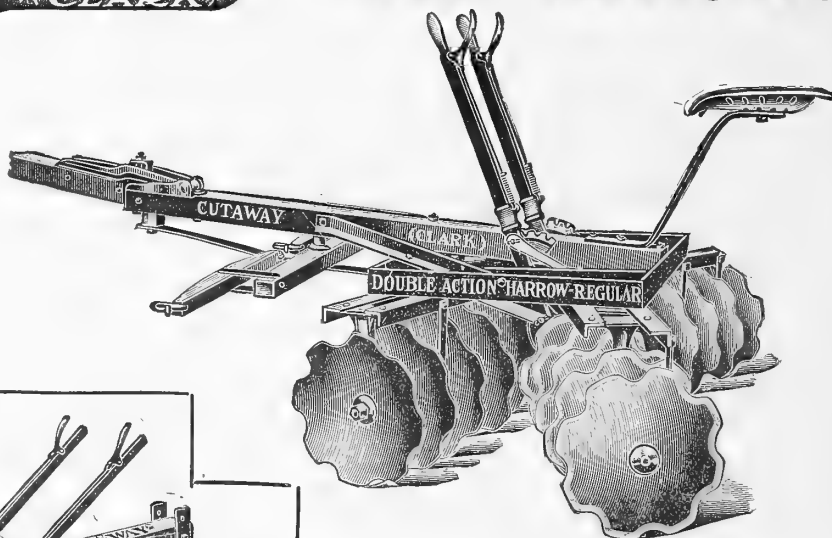
The great efficiency of Cutaway (Clark) Double Action Harrows is due more to the rigid main frame than to any other feature. All four gangs are attached to this one rigid main frame. Observe their positions in relation to one another. The rear disks cannot slue from side to side, following the course of least resistance, but cut just midway between the fore disks. Every particle of soil to the full depth to which the disks run is thoroughly stirred. Note how compactly the machine is built; how uniformly the weight is distributed; how excessively strong it is throughout. The *Cutaway (Clark)* is the original double action harrow. Its popularity spread because of its unequalled efficiency, and its efficiency is mostly due to the rigid main frame. There are substitutes, but at best they are only substitutes. Whenever there is any flexibility between the gangs the real efficiency is lost. The rigid main frame is vital.

Diam.

	No. of	Diam.	of	Width			
Size.	Disks.	Disks.	of cut.	Hitch.	Wt.	Price.	
*A-3	12	16"	3' 6"	2-h	345	\$31.50	
A-4	16	16"	4' 6"	3-h	435	38.10	
A-5	20	16"	5' 6"	4-h	510	43.50	
A-6	24	16"	6' 6"	4-h	610	46.75	

Cutaway
(CLARK)

DISK HARROWS

CUTAWAY DOUBLE ACTION ENGINE
HARROW

The mechanical detail of this machine is shown in the illustration opposite. All four gangs are attached to the one rigid main frame. This construction is all-important—vital. Only by the rigid main frame can a double action engine harrow be made to do such work as to justify its existence. The gangs are held rigidly. They cannot shift and slue about, but work in correct relation to one another at all times. The fore disks throw the soil out, and the rear disks cut just midway between the fore disks and throw the soil back, so that all is thoroughly stirred and left level. In the center is an extra disk which cuts out the middle. Observe in the illustration opposite how excessively strong this harrow is built throughout. The frame is of heavy angle iron, stoutly braced with angles. Draft rods extend between the frame and axles, so that the strain from the pull is uniformly distributed. The hitch is adjustable to any engine, and a perfect line of draft can always be maintained. The gangs are easily set at any angle desired. There is a size for almost every engine, and by hitching in multiples practically any sized outfit can be rigged. Sizes and specifications are given in table:

Size.	No. of Disks.	Diam. of Disks.	Width of cut.	Weight.	Price.
*X- 6	25	18"	7'	1440	\$106.50
X- 7	29	18"	8'	1625	114.00
X- 9	37	18"	10' 6"	2090	150.00
X-11	45	18"	12' 6"	2475	222.00

Size.	No. of Disks.	Diam. of Disks.	Width of cut.	Weight.	Price.
B- 6	25	20"	7'	1475	111.25
B- 7	29	20"	8'	1665	119.00
B- 9	37	20"	10' 6"	2170	160.00
B-11	45	20"	12' 6"	2575	234.75

*"X" means that the disks are 18 ins. in diameter; "B," 20.

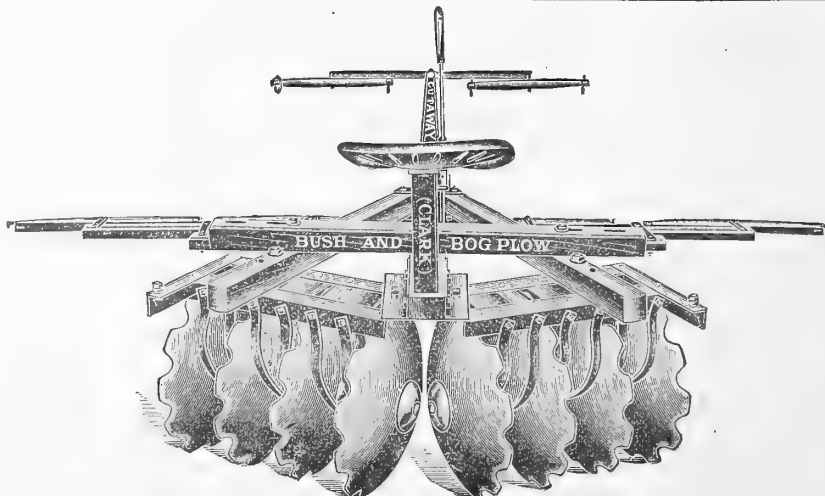
CUTAWAY BUSH AND BOG PLOW

On many farms are fields lying out as waste, simply because their owners do not know how cheaply and quickly they may be put under cultivation. The old, expensive, hand-labor method is no longer necessary. Much work that could be done heretofore only by slow, tedious and hard labor with an axe, bush-knife and shovel can now be done with the *Cutaway (Clark)* Bush and Bog Plow.

As is shown in the illustration opposite, this machine is a big, heavy disk plow or harrow. It weighs 660 pounds. It is equipped with extra heavy 24-inch disks of standard *Cutaway (Clark)* quality, forged sharp. The bearings are dust-proof, oil-soaked hardwood, perfectly lubricated.

No. of Diam. of Width						
Disks.	Disks.	of cut.	Hitch.	Wt.	Price.	
8	24 in.	5 ft.	4 H.	680	\$59.75	
8	20 in.	4½ ft.	2 H.	440	41.25	

Additional for above, fitted with fore truck, less long tongue and neck yoke, \$3.75.



Cutaway **DISK HARROWS**

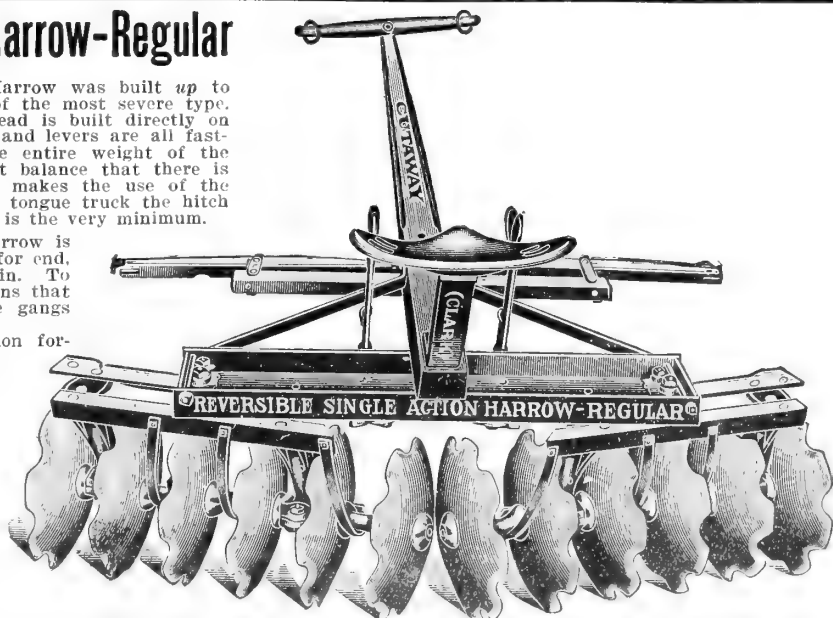
Cutaway Single Action Harrow-Regular

The CUTAWAY (CLARK) Single Action Harrow was built up to a standard measured by actual field conditions of the most severe type. Observe in the illustrations opposite that the head is built directly on top of the gangs. Note the tongue, seat, braces and levers are all fastened to it, thereby making the disks carry the entire weight of the machine. This construction gives such a perfect balance that there is practically no weight on the horses' necks and makes the use of the tongue truck optional with the user. Without a tongue truck the hitch is placed back close to the machine and the draft is the very minimum.

The CUTAWAY (CLARK) Single Action Harrow is reversible; that is, the gangs can be swung end for end, so that the soil may be thrown either out or in. To reverse, it is only necessary to pull the cotter pins that hold the lever links, drop the links, swing the gangs around and reattach links.

Instead of having a heavy truss construction forward of the gangs with the line of draft at a considerable angle upward, the CUTAWAY (CLARK) Single Action Harrow is built on top of the gangs and the line of draft is practically horizontal. Instead of power being wasted in lifting the harrow out of the ground, it is all utilized in pulling the harrow in a horizontal direction and allows the machine to "take" the ground.

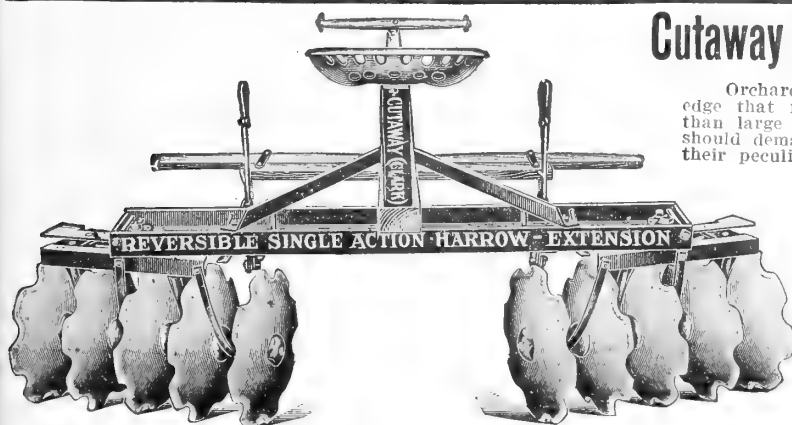
Size.	No. of Disks.	Diam. of Disks.	Width of Cut.	Hitch.	Wgt.	Price.
A-4	8	16-in.	4-ft.	2-h.	250	\$21.95
A-5	10	16-in.	5-ft.	2-h.	275	24.35
A-6	12	16-in.	6-ft.	3-h.	305	28.85
A-7	14	16-in.	7-ft.	4-h.	435	32.50



Cutaway Single Action Harrow-Extension

Orchard tillage should be intensive. It is common knowledge that no crop responds to thorough tillage more profitably than large fruits. It is, therefore, natural that the orchardists should demand CUTAWAY (CLARK) harrows especially built for their peculiar needs.

The CUTAWAY (CLARK) Single Action Harrow-Extension is the same machine as the CUTAWAY (CLARK) Single Action Harrow-Regular, except that the head is longer so as to spread the gangs out beyond the team and under the branches of the trees. The head is built on top of the gangs. To it are attached the tongue, braces and levers. Thus the entire weight of the machine is on top of the gangs and is carried entirely by the disks.



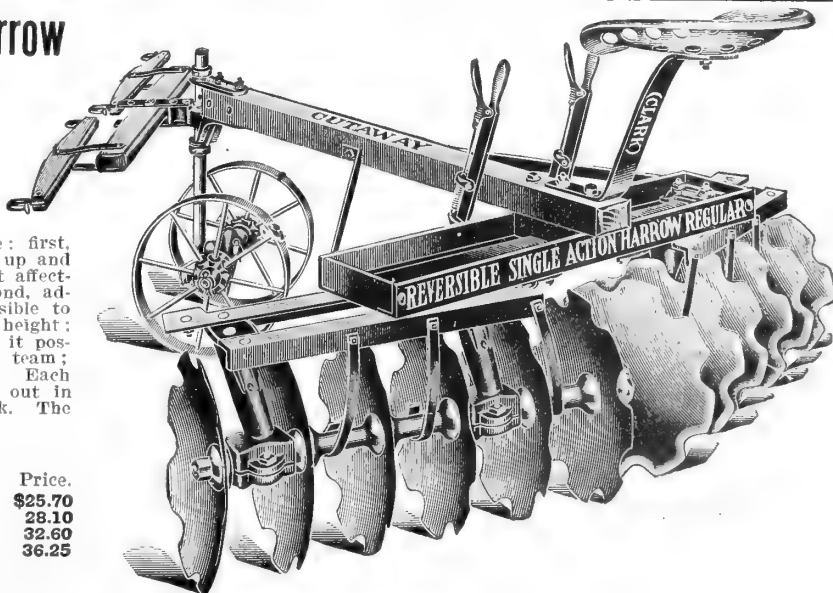
Size.	No. of Disks.	Diam. of Disks.	Width of Cut.	Hitch.	Wgt.	Price.
A-4	8	16-in.	6-ft.	2-h.	265	\$23.20
A-5	10	16-in.	7-ft.	2-h.	295	25.60
A-6	12	16-in.	8-ft.	3-h.	320	30.25

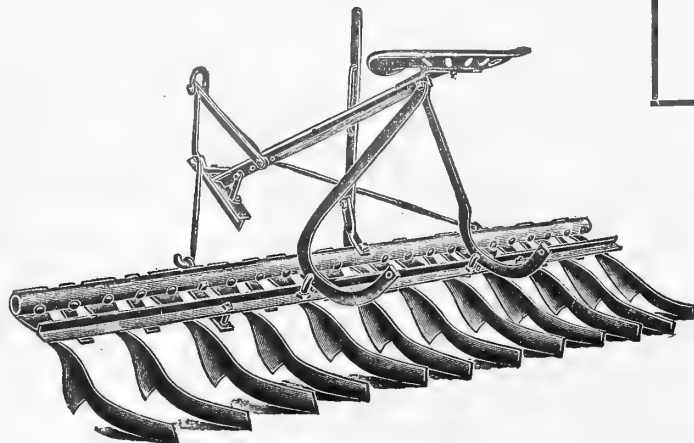
Cutaway Single Acting Harrow with Tongue Truck

This harrow is the same as the Cutaway Single Acting Harrow, except it is provided with a tongue truck, and in this instance the harrow is furnished without long tongue and neck yoke.

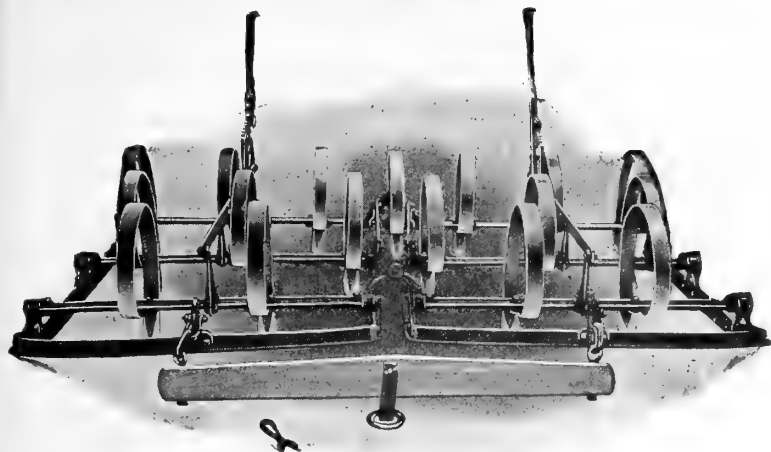
Four essentials of a good tongue truck are: first, an axle joint, which allows either wheel to rise up and run over clods, stones and other obstacles without affecting the even, regular draft of the harrow; second, adjustable tongue attachment, which makes it possible to attach the tongue truck to a harrow of any height; third, adjustable hitch attachment, which makes it possible to set the hitch to suit the size of any team; fourth, dust-proof oil-soaked hardwood bearings. Each of these essentials are found perfectly worked out in the CUTAWAY (CLARK) Harrow Tongue Truck. The prices are for complete harrows.

Size.	No. of Disks.	Diam. of Disks.	Width of Cut.	Hitch.	Wgt.	Price.
A-4	8	16-in.	4-ft.	2-h.	250	\$25.70
A-5	10	16-in.	5-ft.	2-h.	275	28.10
A-6	12	16-in.	6-ft.	3-h.	305	32.60
A-7	14	16-in.	7-ft.	4-h.	435	36.25





THE "GRITCO" RUNNER SPRING TOOTH LEVER HARROW



15 TOOTH, \$15.50
 17 TOOTH, \$16.75

An All-Steel, Low-Down Lever Spring Tooth Harrow with Renewable Steel Runners. 15 or 17 Teeth. Two Sections.

The Frame is made of special "T" Steel forged in one piece.

Renewable Steel Shoes are bolted onto the underside of the frame to take the wear, so that no wear comes on the frame itself. These shoes can be renewed at a slight expense, making the harrow practically indestructible.

The Teeth are made from the best Open Hearth Steel, finely tempered in oil and fully warranted and can be instantly raised or lowered by means of the levers. As the point of the tooth wears, same can be lowered by adjustment on the tooth bars.

The Shape of the harrow is correct to make it run steadily and smoothly and permit the teeth always to work at a uniform depth; teeth can be easily raised or lowered, to transport from field.

Construction is simple. It is durable and does not require a man and wrench to keep it in working order.

GRITCO LEVER WHEEL HARROW



15 TOOTH, \$17.50
 17 TOOTH, \$19.00

The Main Frame is constructed entirely of double "T" steel of high carbon. The frame surrounds the teeth, and there are no projecting parts to engage obstruction. Cross Bars are 1 1/4-inch structural tubing, and have no holes drilled through them; compression clamps instead of bolts being used for fastenings.

The Arrangement of Teeth.—The front bar carries four, middle bar six, and rear bar seven teeth in the 17-tooth machine. Best arrangement possible.

Teeth are of regulation size, 1 3/4 inches wide, 3/4-inch thick, are made of best quality of spring steel and fully guaranteed against imperfection.

Tooth Holders.—By our method of constructing tooth holders, or clamps, teeth may be readily adjusted and kept in line.

The Carrying Wheels are constructed with broad rims and the bearing surfaces are chilled. The Lever Racks are strong and durable, being made of malleable iron. It is painted with a heavy coat of green paint.

Seat attachment will be furnished at extra price, when so ordered. Price, \$1.25.

SPRING HARROW TEETH

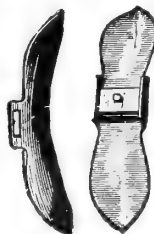


For All Leading Harrows,

Price, 35c. each.

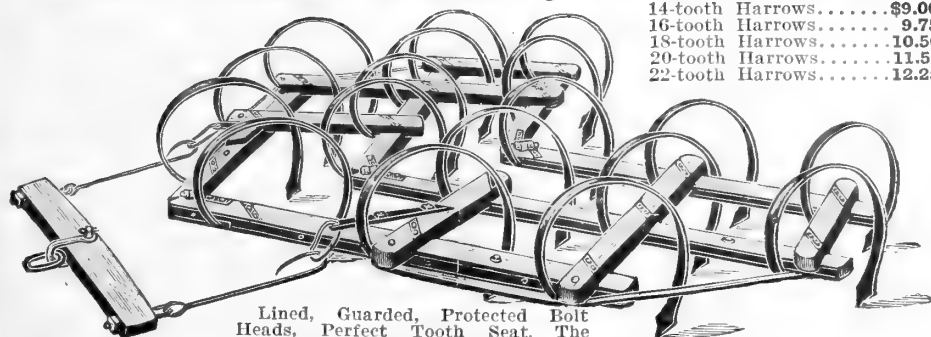
When taken in full sets, special price.

MICHIGAN PATTERN REVERSIBLE HARROW TOOTH POINTS



Fastening device to the old teeth very simple, making any length desired. Points reversible. Has pulverizing qualities for any soil. Price, 15c.

WOOD FRAME HARROW, STEEL LINED



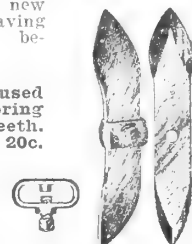
14-tooth Harrows.....\$9.00
 16-tooth Harrows..... 9.75
 18-tooth Harrows.....10.50
 20-tooth Harrows.....11.50
 22-tooth Harrows.....12.25

Lined, Guarded, Protected Bolt Heads, Perfect Tooth Seat. The best of "Wood Frame" Harrows.

THE BUTTS REVERSIBLE HARROW TOOTH POINTS

The double point is equivalent to two new teeth, having the holder besides.

Can be used on all Spring Harrow Teeth. Price, each, 20c.

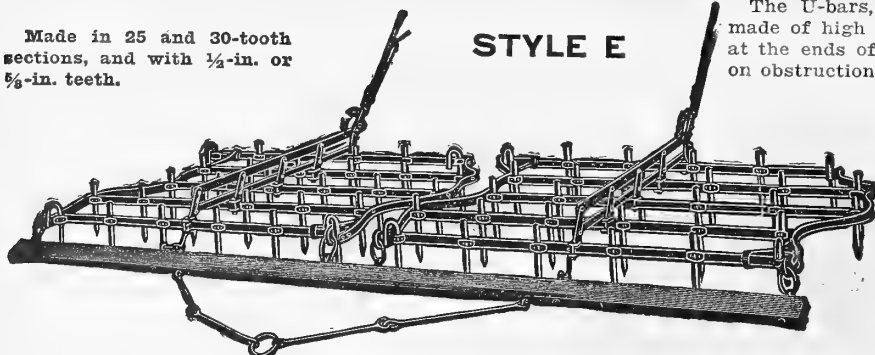


SYRACUSE REVERSIBLE HARROW TOOTH POINTS.
 Each, 10c.

GRITCO GUARDED FRAME LEVER HARROW

Made in 25 and 30-tooth sections, and with $\frac{1}{2}$ -in. or $\frac{5}{8}$ -in. teeth.

STYLE E

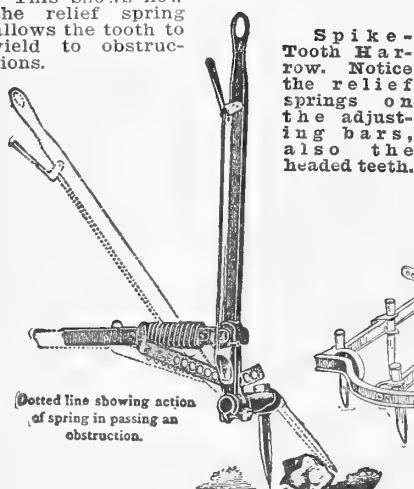


The U-bars, channels, oscillating bars and teeth are made of high carbon steel. The channels, being placed at the ends of the U-bars, prevent them from catching on obstructions, as is frequently the case with the open end harrow. Strong and well made, but carrying no superfluous weight. Corner braces, oscillating castings and lever castings of malleable iron.

	List Price.	Our Price.
50-Tooth Harrow, $\frac{1}{2}$ -inch Teeth, Weight, 190 lbs...	\$17.00	\$11.00
50-Tooth Harrow, $\frac{5}{8}$ -inch Teeth, Weight, 195 lbs...	18.00	11.50
60-Tooth Harrow, $\frac{1}{2}$ -inch Teeth, Weight, 210 lbs...	19.00	12.00
60-Tooth Harrow, $\frac{5}{8}$ -inch Teeth, Weight, 215 lbs...	20.00	13.00

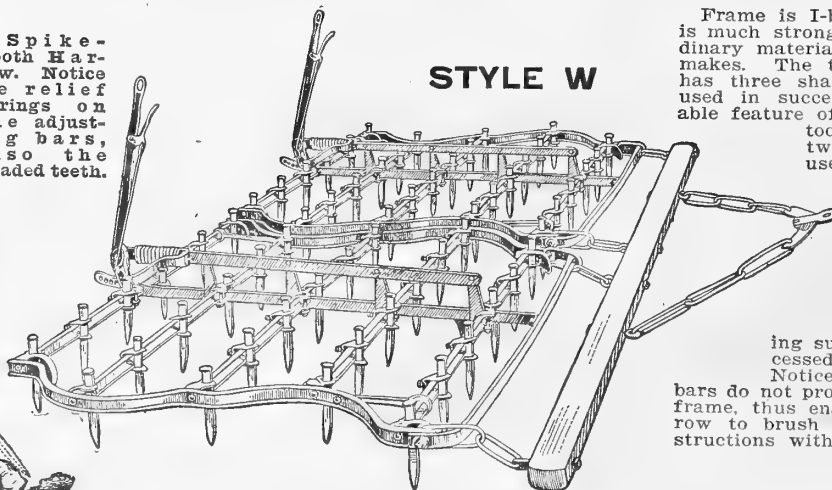
GRITCO GUARDED FRAME HARROW WITH RELIEF SPRINGS

This shows how the relief spring allows the tooth to yield to obstructions.



Spike-Tooth Harrow. Notice the relief springs on the adjusting bars, also the headed teeth.

STYLE W



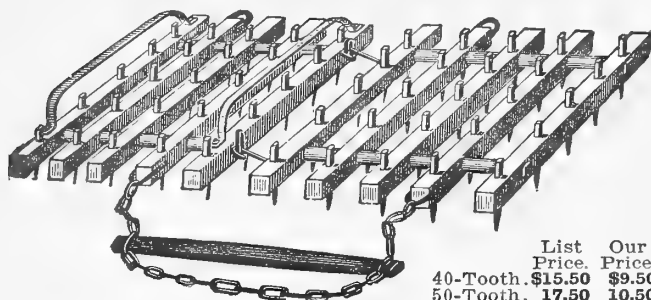
Frame is I-beam, steel, and is much stronger than the ordinary material used on other makes. The triangular tooth has three sharp edges to be used in succession. A valuable feature of the triangular tooth is that the two edges not in use are sharpened by contact with the soil. Tooth-holder is simply perfect. It surrounds both the tooth and the bar, the pressure being supplied by a recessed nut and bolt. Notice that the tooth bars do not project beyond the frame, thus enabling the harrow to brush up against obstructions without injury.

	List Price.	Our Price.		List Price.	Our Price.
50-Tooth.....	\$19.50	\$12.50	75-Tooth.....	\$29.50	\$18.75
60-Tooth.....	22.00	14.00	90-Tooth.....	33.00	21.00

STEEL "U" BAR LEVER HARROW

Bars "U"-shape steel, main cross or connecting bars 2-inch steel channels. Headed steel teeth $\frac{1}{2}$ -inch and $\frac{5}{8}$ -inch square by 8-inch held firmly. Lever is attached to each section, by means of which teeth can be given any desired slant, for releasing trash, pulverizing or smoothing.

BALTIMORE DOUBLE HINGE HARROW



This is a two-section, wood-frame, spike tooth Harrow. The runners, as seen in the cut, are intended to be used in carrying the Harrow from one field to another.

GARDENER'S HARROW

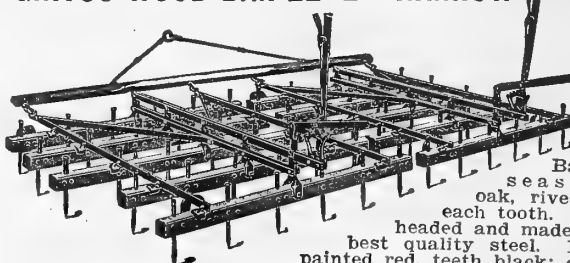
This Harrow is similar to the Baltimore Double Hinge Harrow, noted above, only it is made in one section instead of two. It is designed to be used with one horse. We furnish this Harrow with 30 teeth, which cuts 4 feet 6 inches wide, and with 25 teeth, cutting 3 feet 8 inches wide.

	List Price.	Our Price.		List Price.	Our Price.
With 25 teeth..	\$9.00	\$6.00	With 30 teeth..	\$10.00	\$6.50

Made in 25 and 30-tooth sections.

	List Price.	Our Price.
2-Section, 50-Tooth, $\frac{1}{2}$ -inch Teeth, Weight, 196 pounds.....	\$18.00	\$11.50
2-Section, 50-Tooth, $\frac{5}{8}$ -inch Teeth, Weight, 212 pounds.....	19.00	12.00
2-Section, 60-Tooth, $\frac{1}{2}$ -inch Teeth, Weight, 216 pounds.....	20.00	12.50
2-Section, 60-Tooth, $\frac{5}{8}$ -inch Teeth, Weight, 232 pounds.....	21.00	13.50

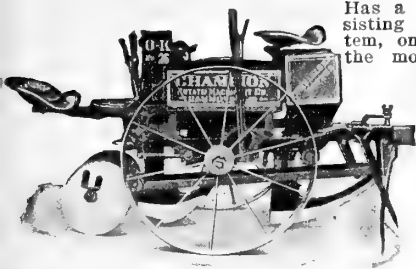
GRITCO WOOD BAR LEVER HARROW



Bars of seasoned oak, riveted at each tooth. Teeth headed and made from best quality steel. Frame painted red, teeth black; combination draw bars furnished for two, three and four-section harrows when ordered.

	List Price.	Our Price.
No. 2450—2-Section, 50-9/16-inch Teeth.....	\$21.00	\$12.50
No. 2450—2-Section, 50- $\frac{5}{8}$ -inch Teeth.....	22.00	13.00
No. 2560—2-Section, 60-9/16-inch Teeth.....	22.00	13.00
No. 2560—2-Section, 60- $\frac{5}{8}$ -inch Teeth.....	23.00	13.50

O. K. CHAMPION POTATO PLANTER No. 25



Has a seed-dropping device consisting of the endless-cup system, one which is recognized as the most accurate. The seed is picked up and deposited on a dial plate, which is equipped with pockets for the reception of the seed pieces, where any correction necessary can be made, insuring absolutely one piece to every hill. Tests have proven that this machine will plant absolutely 100 per cent. correct. The cups are

adjustable and permit perfect planting for large or small pieces. The distances of dropping are 12, 15 and 18 inches.

The hopper is of steel construction, fitted with a sliding bottom, which causes a steady feed, and a guard permits the cups to single out the seed pieces, no matter what the shape may be. Two shoes are used for making the furrow. The first opens the trench for the reception of the fertilizer. The second opens it deeper, spreading a thin coat of dirt over the fertilizer so as not to allow same to come directly in contact with the potatoes. The discs are 14 inches.

The seat at the rear enables the operator to be in position where he can oversee the entire work and gives him access to the levers, one of which raises or lowers the shoe and discs; the other throws the seed feed in or out of gear. Whenever regular sized pieces and a steady team are used it is not always necessary to use two men on this planter. The driver can operate it from the rear seat.

This machine can also be converted into an automatic planter. This planter embodies all requisites necessary to make it a durable machine, and in construction it is very simple.

Weights with fertilizer attachment about 350 pounds.

List Price.....\$125.00
Our Special Prices.....\$75.00

Acme Tubular Hand Potato Planter **THE LIGHTEST TUBULAR PLANTER MADE.**

Its spring-closed jaws are especially designed to enter the soil easily, yet open wide enough to drop the largest seed. The dropping lever or dump is adjustable for any depth of planting. The conveyor tube is galvanized iron.

Our Special Price, \$1.00; List Price, \$1.60.
Directions for Using.—Walk erect, plunge planter into the soil, press forward as you withdraw it; seed is left in moist soil, not dry, as is usually the case when seed is dropped by one man and left to be covered by another.

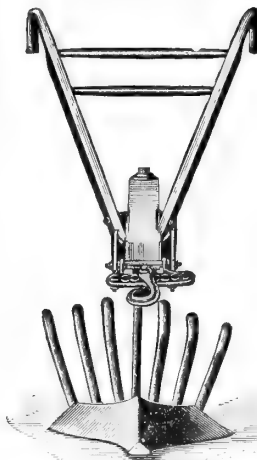
"ACME" HAND POTATO PLANTER

This is similar to the above, except it is not tubular, but a stick planter. We do not carry these in stock, but can furnish them direct from the factory. Same directions for working apply on this as on the "Peerless."

Our Special Price, 75c.; List Price, \$1.00.



Chattanooga Potato Digger



The Chattanooga Potato Digger is built for service the standard is made of malleable iron 6½ inches wide at the narrowest part, this assures strength.

It is so designed that it lifts the potatoes out and places them on top of the ground, making picking up very easy.

The shovel is made from Chilled cast iron, polished, and the digger fingers of wrought iron.

The plow is made with either wood or steel beam. We can also furnish subsoil point or double mouldboards to make either a subsoil plow or middle burster.

WOOD BEAM.

List Price	Our Special Price
\$13.00	\$8.00
STEEL BEAM.	
List Price	Our Special Price
\$14.50	\$9.00

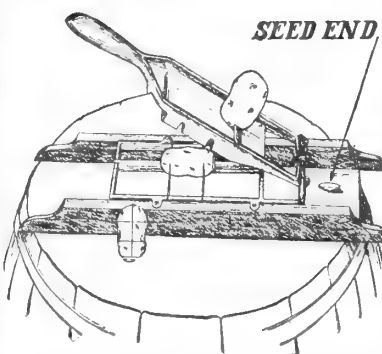
EXTRAS

Sub-Soil Point,..... List Price, \$0.48; Our Special Price, \$0.30
Middle Burster Share, List Price, \$1.60; Our Special Price, \$1.00

We Also Carry Repairs for the Hitchcock Digger.

Steel Point..... List Price, \$1.20; Our Special Price, \$.75
Beam..... List Price, 4.00; Our Special Price, 2.50
Cast Head..... List Price, 2.00; Our Special Price, 1.25

The Gem Seed Potato Cutter



The construction of the Gem Seed Potato Cutter is very simple, and is built for accuracy as well as convenience. It is strong and durable; the knives are of good quality steel and are fitted to grooves in frame, making them easy to remove if necessary. It will cut any size potato in pieces uniform in size, thereby insuring more accurate planting when power planter is used. Size, 24 inches long, 8 inches wide. Weight, 8 pounds. List Price, \$4.00. Our Special Price, \$2.50.

O. K. CHAMPION POTATO DIGGER

List Price, \$125.00

Our Special Price, \$75.00

Weight 580 Lbs.

Send for Special Catalogue.

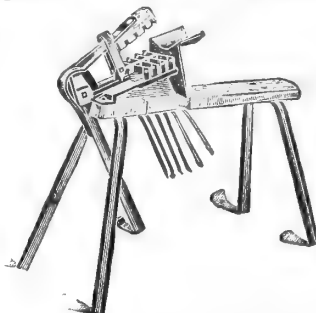


The O. K. Champion Digger with its many superior features commends itself to the careful buyer. It has stood the test of years and has many times proven to be the victor in the potato field over all competitors. Its construction embodies all the essential features which make it absolutely reliable. It is built with a view to simpleness, doing away with all unnecessary wearing parts, which accounts for its easy draught. Two horses will do the work with ease. There is no chain drive to cause friction and wear; only two gear wheels are employed on the entire machine.

The shovel is 20 inches wide, scooping up that width of ground and potatoes, depositing them on the elevator separating apron, whose links are alternately raised and lowered. These run over a sprocket agitator, which keeps the apron continuously agitated up and down, causing the separation to be done with the least possible power requirements and giving the machine a good separating capacity. The potatoes then fall upon the rear shaking fork row, thoroughly cleaning any remaining dirt from the potatoes, and depositing them in a row of about 12 inches behind the machine.

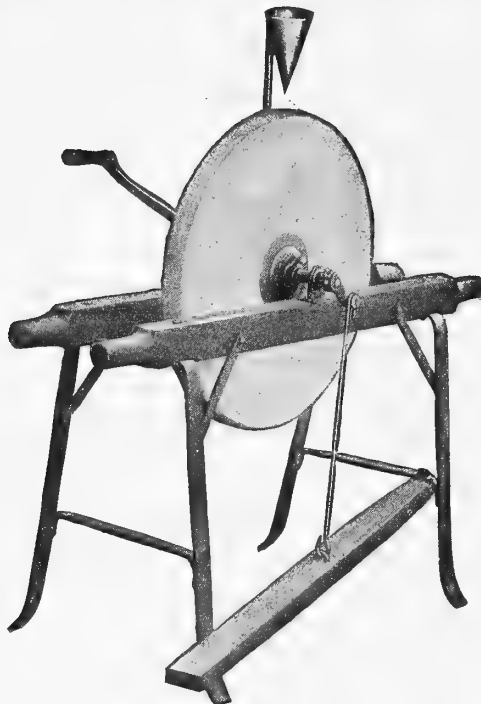
O. K. Champion Potato Cutter

Cuts potatoes in exact sizes that are best suited to plant with any power planter. To cut by hand means all shapes, both large and small. Will cut five to seven bushels per hour. No power planter can plant correctly unless the tubers are cut an exact size. Planting large sized seed insures a better stand because there is more nourishment furnished the young plant than can be had from small seed. Many times it has been noticed that many potatoes will be up three or four inches before others break through the surface, and frequently they never show themselves, which failure is placed to bad seed, when really it is owing to too small seed.



List Price, \$10.00; Our Special Price, \$6.00.

Griffith & Turner Ball-Bearing Grindstone



The G. & T. B. B. Grindstone has a combination steel and hard-wood frame. Stone carefully selected Berea grit. Ball-bearing steel journals and axles. Stones usually furnished vary in thickness from 1 3/4 to 2 1/4 inches. Weight of frame and fixtures only 32 pounds. Shipped knocked down unless ordered otherwise. If crated an additional charge will be made.

No. 1 Stone, 90-110 pounds, each.....\$4.25
 No. 2 Stone, 70- 80 pounds, each..... 4.00
 No. 3 Stone, 40- 50 pounds, each..... 3.75

W. & B.
BALL-BEARING GRINDSTONE

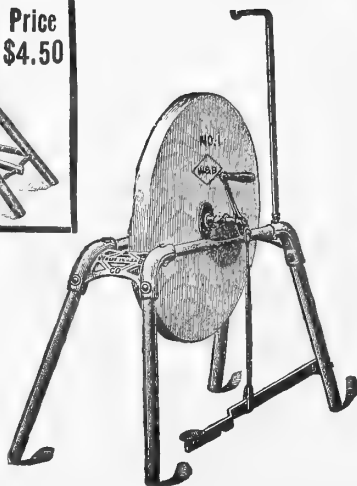
Price
\$4.50

The W. & B. Ball-Bearing
Grindstone

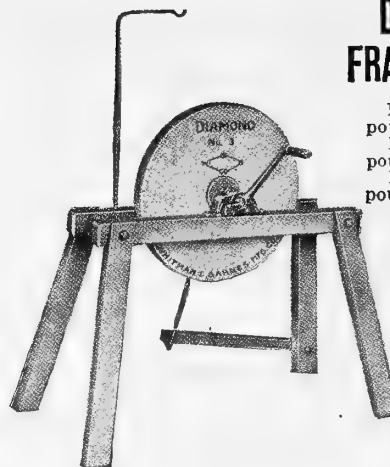
is one of the strongest
built, and is practically in-
destructible.

W. & B.
TUBULAR FRAME
GRINDSTONE

No. 1—30-in. Stone...\$5.00
 No. 2—24-in. Stone... 4.75

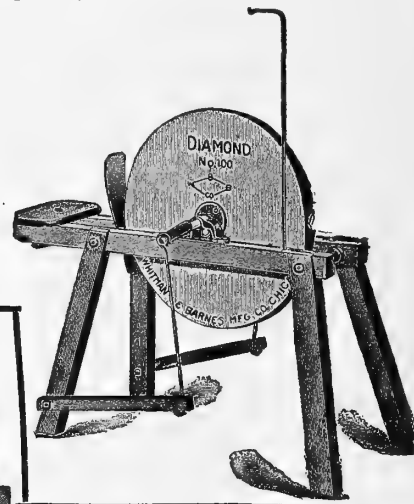
DIAMOND WOOD
FRAME GRINDSTONE

No. 1 Stone, 100-115
pounds, each.....\$4.00
 No. 2 Stone, 70-80
pounds, each..... 3.75
 No. 3 Stone, 45-60
pounds, each..... 3.50



Diamond Wood Frame Bi-Pedal Grindstone

No. 100 Stone, 100-115 pounds, each.....\$4.50
 No. 200 Stone, 70- 80 pounds, each..... 4.25
 No. 300 Stone, 45- 55 pounds, each..... 4.00

NORKA
ANTI-FRICTION
BI-PEDAL
GRINDSTONE

Price, \$4.00.

Bushed Stone for
above\$1.75

GRINDSTONE FIXTURES

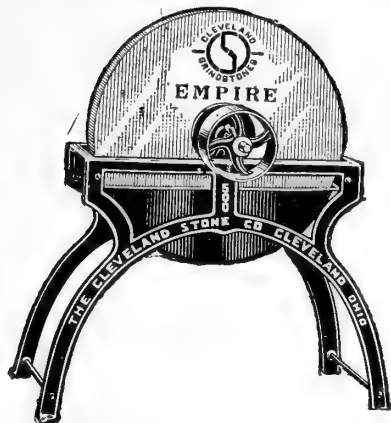
Grindstone Fixtures as used on G. & T. Ball-bearing Stones,
per set.....\$1.00

Cheaper Cast Grindstone Fixtures with Shaft.

15-inch, per set.....35c.
 17-inch, per set.....40c.
 19-inch, per set.....50c.

EMPIRE IRON FRAME POWER GRINDSTONE

THE EMPIRE BALL-BEARING POWER GRINDSTONE



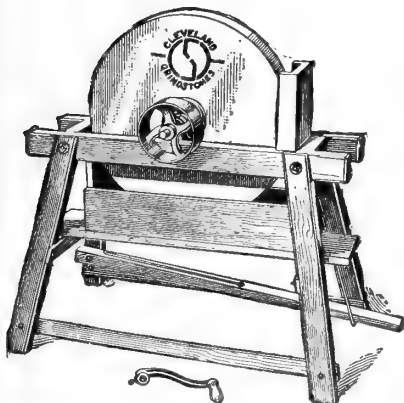
Designed to meet the needs of the farmer who desires a grindstone to be operated by a gasoline engine, the Empire not only possesses the needed strength and staunchness to withstand the strenuous service of every day use, but is of light weight and easily handled. The frame and trough of the Empire are cast iron and should last a lifetime. It has detachable steel shaft, 6 inch pulley and hardened steel annular ball bearings of the finest quality.

The **EMPIRE** is equipped with genuine Berea Stone, 24 inches in diameter and 2 inches to 3½ inches thick. This is the most efficient and best grit produced for general use and especially for farm tools.

Weight complete, about 225 pounds.

Price complete.....\$12.00

FARMERS' SPECIAL POWER GRINDSTONE WOOD FRAME



Recognizing a demand for a high grade power grindstone for the farm at a popular price, we offer the Farmer's Special, a wood frame power grindstone especially designed to meet this demand.

This is a sturdy frame constructed exclusively of selected hardwood. The legs and sides are extra heavy and the whole frame is oiled and varnished to prevent decay, and should last a long time. The bearings and stone are the same as on the Empire. In addition to the regular equipment for a power grindstone we furnish a

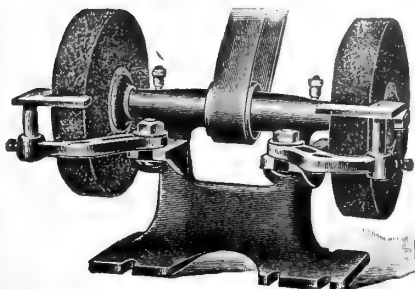
foot treadle with ball bearings on the crank and a handle crank, either for use in case of emergency.

Frame shipped knocked down; stone crated.

Weight complete, about 175 pounds.

Price complete.....\$9.00

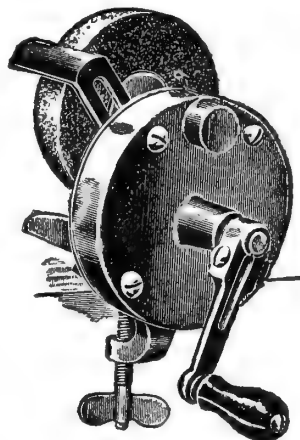
POWER BENCH GRINDER



sharpening wheels of Light Dimo-Grit, 7 inches in diameter and 1½ inches wide, one medium grit and the other coarse, and two universally adjustable tool rests. Weight boxed, 32 pounds.

Price.....\$7.50

NEW "CHALLENGE" TOOL GRINDERS



No. 4-C.—It is equipped with a 4x¾ in. Grinding Wheel, and is intended for a Household Grinder, and will be found a very necessary tool about the house. The work it can perform is remarkable. Weighs 7 lbs. boxed. Price.....\$2.00

No. 5-C.—It is equipped with a 5x¾ in. Grinding Wheel, and will be found a very handy tool for a mechanic to take along in his tool box. Weighs 7 lbs. boxed. Price.....\$2.50

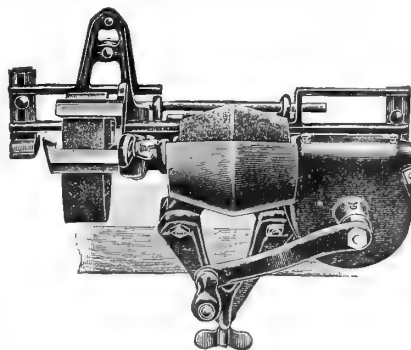
No. 6-C.—It is equipped with a 6x1 in. Grinding Wheel. This Grinder is especially useful for the farm, workshop, hotel and garages. It will save its cost many times. Weighs 11 lbs. boxed. Price.....\$3.75

No. 7.—It is equipped with a 7x1 in. Grinding Wheel, and will be found a very useful Grinder, doing the work very rapidly. Weighs 15 lbs. boxed. Price.....\$4.75

Portable Foot Power Attachment for No. 6 and No. 7. Price.....\$2.25

Fowler's Geared Tool Grinder. Price.....\$3.00

"BEST MADE" SICKLE AND TOOL GRINDER



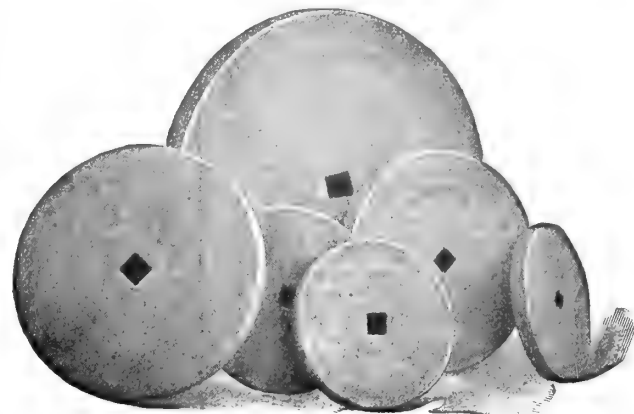
In putting out these new machines we are at once placing farm sickle grinders in the class of strictly high-grade machines. Heretofore, those offered for farm trade have been the cheapest sort, with noisy cast gears and nothing to keep dust and grit out of the bearings and gears.

These grinders can be attached to a bench or a mow wheel. The No. 255 has a swivel arrangement that the tool grinder can be turned to an upright position.

No. 255.—Double-faced medium and fine tool-sharpening wheel, 5x1½ inches in size, beveled sickle-sharpening wheel and special improved Tool and Chisel Guide. Weight, boxed, 22 lbs. Price.....\$6.00

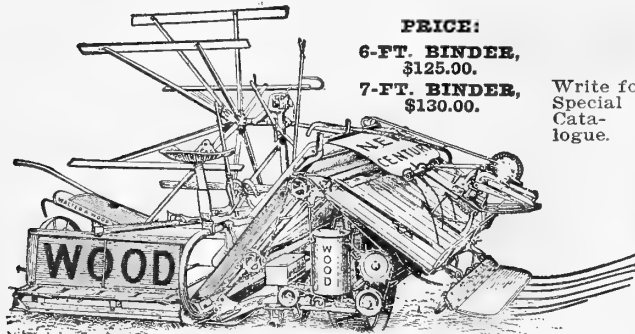
No. 264.—This grinder is built on the same general principles as No. 255, but does not allow the frame to swivel to the upright position for tool sharpening; nor does it have the double-faced sharpening wheel. The tool-sharpening wheel is 4¼x1¾ inches in size. Weight, boxed, 23 lbs. Price....\$4.50

WE CARRY A FULL LINE OF LOOSE STONES ALL SIZES



PRICES: From 40 lbs. to 200 lbs., per lb., 1¾ cents.
Under 40 lbs., per lb., 2 cents.
Over 200 lbs., per lb., 2 cents.

Walter A. Wood NEW CENTURY GRAIN BINDER



PRICE:
6-FT. BINDER,
 \$125.00.
7-FT. BINDER,
 \$130.00.

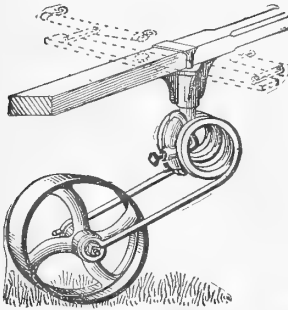
Write for
 Special
 Cata-
 logue.

Rigid main frame of heavy angle steel. Strong double-truss joint between main frame and platform. Great 36-inch all-steel drive wheel. "Z"-shaped finger bar. Low elevators with easy slope. Unusually deep elevator; greater capacity for heavy crops. Steep-pitched binder deck. Relief roller between elevators and deck. Automatic tighteners on all aprons. Three under-packers, assuring perfect work in short grain. Revolving discharge-arms, making perfect separation. Improved spring dropboard. Improved compression device. Unequaled knottor, grasper and tension. Binder driven from the rear.

KEYSTONE TONGUE SUPPORT

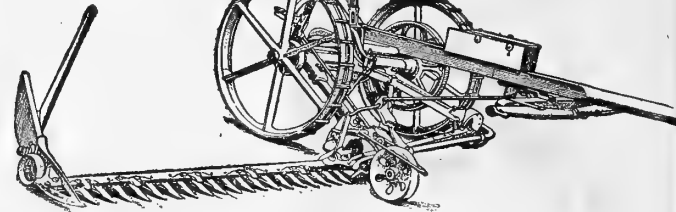
FOR HARVESTING MACHINERY AND DISK HARROWS.

This Tongue Support is simple and light in weight. The springs are made of best $\frac{3}{8}$ -inch spring steel. The coils are $4\frac{1}{2}$ inches in diameter, and have arms extending 12 inches. The wheel is $11\frac{1}{2}$ inches high, with $2\frac{3}{4}$ -inch tread, thus assuring a light draft. No holes need to be bored in the tongue to fasten this support, thus allowing the tongue all its strength. Price, \$3.50.



Walter A. Wood Admiral Mowers

4 ft. 6 in., 2-horse... \$42.50
 5 ft., 2-horse... 45.00
GIANT MOWER.
 6 ft., 2-horse... 47.50



Wood two-horse Mowers cut a swath 4 feet 3 inches or 4 feet 6 inches; with patent axle extension, 5 feet or 6 feet. Wood Giant Mowers cut 5 feet, 6 feet or 7 feet, without patent extension axle.

Walter A. Wood Vice-Admiral Mowers

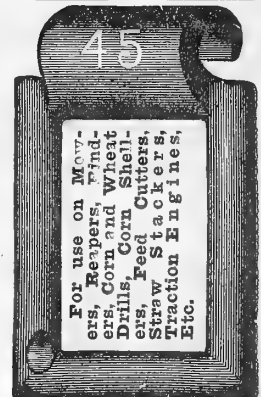
With Steel Wheel, \$40.00.
 Wood one-horse Mowers cut a swath 3 feet 6 inches or 4 feet.

Link Chain Belting

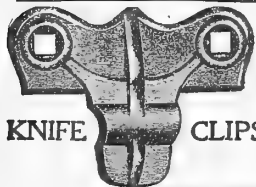
No.	Links per ft.	Working strain, lbs.	List price per ft. all plain links	Retail per link
25	13.3	75	13c.	2c.
32	10.4	150	13c.	2c.
33	8.6	200	13c.	3c.
34	...	...	13c.	...
35	7.4	250	13c.	3c.
42	8.75	300	13c.	3c.
45	7.4	350	13c.	3c.
48	6.	375	15c.	4c.
52	...	...	18c.	...
55	7.4	450	16c.	4c.
62	7.25	650	22c.	5c.
65	5.66	550	18c.	6c.
72 $\frac{1}{2}$	7.25	925	39c.	7c.
76 $\frac{1}{2}$	5.8	700	27c.	8c.

BINDER CANVAS SLATS

Each, 5c.



For use on Mowers, Reapers, Winders, Corn and Wheat Drills, Corn Shellers, Feed Cutters, Straw Stackers, Traction Engines, Etc.



KNIFE CLIPS



WOOD PITMANS

PITMAN STRAPS OR CLASPS



WEARING PLATES



Binder Canvas Staples

Per Pound, 20 cents.

SPRING COTTERS



Assorted, doz.....15c.
 Assorted, box of 100.....75c.

PITMAN WOODS

Finished and Bored, Without Straps, Bolts or Boxes. To fit the following machines: Deering (Ideal Mower). McCormick (Big 4 Mower). Milwaukee (No. 6 Mower). Plano (Jones Mower). Each, 40c.

PITMAN BOLTS

To Fit the Following Machines:
 Deering Knife End. Deering Box End. McCormick, M322, with Nut; M433, with Nut $2\frac{1}{2}$ x7/16; 483 $\frac{1}{2}$, with Nut 3x7/16.

Milwaukee, with Horn Nut, PG174. Milwaukee, with Ratchet Nut, PG175. Osborne, Box End (Long). Osborne, Knife End (Short). Plano, 7/16x3, with Nut J134. Plano, 7/16x2 $\frac{1}{2}$, with Nut J103. Plano, 7/16x2 $\frac{1}{2}$, with Nut J147. Plano, 7/16x2 $\frac{1}{2}$, with Nut J363.

Each, 10c. Each.

Buckeye, complete with washers... \$15
 Champion, H442, with Nut... 15
 Champion, H609, with Nut... 15
 Champion, 1 $\frac{1}{2}$ -inch, Left, A96... 20
 Champion, 1 $\frac{1}{2}$ -inch, Right, No. 13... 20
 Champion, 3/4-inch... 20
 Wood, with Nut... 20

KNIFE CLIPS

To fit the Following Machines:
 Champion, A413, A468, A467, A693... \$10
 Deering, F94, E461, F92... 10
 McCormick, M254, M533, H496, H919, L39... 10
 McCormick, M290, M293, M652... 15
 Milwaukee, J1, Osborne, E36... 10
 Osborne (Columbia), K256... 20
 Plano, J46, J106, J325... 10
 Wood, 171, 1432... 10

Price, Each.

PITMAN STRAPS OR CLASPS

to Fit the Following Machines:

Malleable Deering, D464, D465, D605, D606, D470, D607. Each... \$20
 Malleable McCormick, M556, M557, M147, M304, M315. Each... 20
 Malleable Milwaukee, PJ9, PJ9 $\frac{1}{2}$, PH34, PH35, PG34, PG35, PJ34, PJ35. Each... 20
 Malleable Plano, J118, J119, J120, J121. Each... 20
 Plano, J378, Steel (will answer for 355). Plano, J379, Steel (will answer for 356). Plano, J380, Steel (will answer for 357, 358). Each... 20

WOOD PITMANS

(Without Pitman Box and Bolts.)

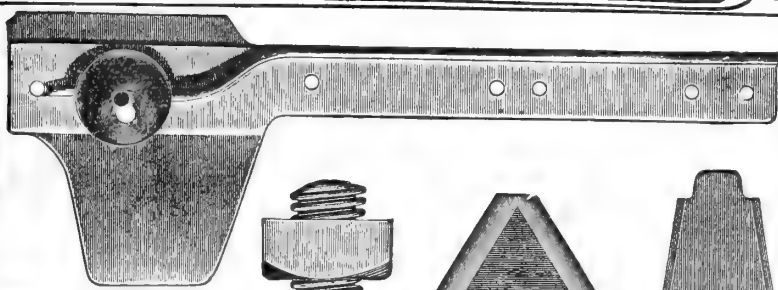
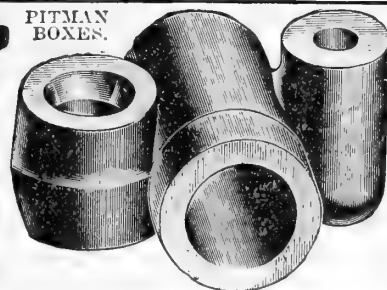
To Fit the Following Machines:
 Deering (Ideal Mower), 1901 and since, D1471... \$150
 McCormick (Big 4 Mower), 1896 and since, M392... 150
 Milwaukee (No. 6 Mower), 1894 and since, PN290... 150
 Plano (Jones Mower), 1901 and since, No. 7394... 150

WEARING PLATES

To Fit the Following Machines:

Champion, H315, Under Shoe Cap. Champion, H232, Under Clips. Deering, D1038, Under Clips. Deering, 1040, Under Shoe Cap. Deering, D1455, Under Shoe Cap. McCormick, M468, Under Clips. McCormick, M490, Under Shoe Cap. Milwaukee, PK156, Under Clip PJ1. Milwaukee, PG157, Under Shoe Cap. Osborne, K325, Under Clips. Osborne, K326, Under Shoe Cap. Plano, 7094, Under Clips. Plano, 7095, Under Shoe Cap. List price, ea., 15c. Retail price, ea., 10c.

PITMAN BOXES.



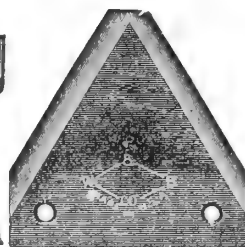
KNIFE HEAD.



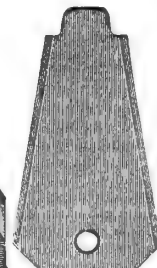
GUARD.



GUARD BOLT.



SMOOTH SECTION.



LEGER PLATE.

MOWER SMOOTH SECTIONS, KNIVES AND GUARDS

Made to fit the following Machines.	Size of Section.	Retail Price of Section.	No. of Guard.	Retail Price of Guard.	No. of Knife Head.	Retail Price of Knife Head.	Knives complete.		Pitman Boxes No.	Last Price of Pitman Boxes.	Retail Price of Pitman Boxes.
							1 1/2 ft.	5 ft.			
Wood.....	3x3 1/2	\$.05	2355	\$.25	2479	\$.35	\$2.40	\$2.50	A 2301	\$1.20	\$.75
Wood.....	3x3 1/2	.05	A	.25	1680	.35	2.40	2.50	A 2301	1.20	.75
Wood.....	3x3 1/2	.05	L	.25	2862	.35	2.40	2.50	291 1/2	1.00	.60
Wood.....	3x2 3/4	.05	P. P.	.25	1810	.35	2.40	2.50	1785	.60	.40
Wood.....									539-540	.80	.00
Deering.....	3x3 1/4	.05	D 698	.25	D 463	.35	2.40	2.50	D 711	.80	.50
Deering.....	3x3 1/4	.05	D 698	.25	F 123	.35	2.40	2.50	D 334	1.00	.80
Deering.....	3x3 1/8	.05	F 1/2	.25	F 174	1.00	2.40	2.50			
Deering.....	2 1/4 x 3 1/2	.05	F 99 1/2	.25	F 74	1.00	2.40	2.50			
McCormick....	3x3 3/16	.05	M 402	.25	M 139	.35	2.40	2.50	M 317	.40	.25
McCormick....	3x3 3/16	.05	M 253	.25	M 139	.35	2.40	2.50			
Champion.....	3x3 3/16	.05	A 881	.25	A 870	.35	2.40	2.50	B 683 1/2	.30	.20
Champion.....	3x3 3/16	.05	A 41	.25	A 415	.35	2.40	2.50			
Champion.....	3x3 3/16	.05	A 42	.25	A 415	.35	2.40	2.50	A 747	.50	.40
Champion.....	3x3 3/16	.05	A 811	.25	A 415	.35	2.40	2.50			
Osborne.....	3x3 3/16	.05	K 514	.25	K 774	.35	2.40	2.50	K 826	.80	.50
Osborne.....	3x3 High Punch	.05	K 280	.25	K 284	.35	2.40	2.50	K 278	.60	.50
Osborne.....	3x3 Low Punch	.05	K 72	.25	K 212	.35	2.40	2.50			
Johnston.....	3x3 3/8	.05	1811	.25	2211	.35	2.40	2.50	2207	.60	.45
Johnston.....	3x3 1/8	.05	77	.25	124	.35	2.40	2.50	257	.80	.50
Plano.....	3x3 1/8	.05	J 110	.25	J 94	.35	2.40	2.50	J 100-J 99	.50	.30
Milwaukee....	3x3 1/8	.05	P K 5	.25	P.G. 6	.35	2.40	2.50	P J 50	.80	.50
Adriance Buckeye	3x3 1/8	.05	3087	.25	557 F	.40	2.40	2.50			
Akron Buckeye	3x3 3/8 Low Punch	.05	775	.25	301	1.00	2.40	2.50			
Akron Buckeye	3x3 3/8 High Punch	.05	775	.25	301	1.00	2.40	2.50			
Dain.....	3x3 3/16	.05	Z 5	.25	Z 4	.35	2.40	2.50	Z 162	.80	.50

BINDER SICKLE SECTIONS, GUARDS AND KNIVES

Made to fit the following Machines.	Size of Section.	Retail Price of Section.	No. of Guard.	Retail Price of Guard.	No. of Knife Head.	Retail Price of Knife Head.	Knives complete.		
							6 ft.	6 1/2 ft.	7 ft.
Wood Binder.....	3 x 2 3/4	\$.05	W	\$.25	H 2139	\$.40	\$2.75	.....	\$3.00
Wood Binder.....	3 x 2 3/16	.05	H 171	.25	H 1150	.35	.....	.....	.....
Deering Binder.....	3 1/4 x 2 1/4	.05	286	.25	H 260	.25	2.75	.....	3.00
Deering Binder.....	3 1/4 x 2 3/16	.05	286	.25	A 46	.50	2.75	.....	3.00
McCormick Binder.....	3 x 2 1/2	.05	H 495	.25	B 23	.25	2.75	.....	3.00
Champion Binder.....	3 x 2 1/2	.05	U 53	.25	1852	.50	2.75	.....	3.00
Osborne Binder.....	3 x 2 1/4	.05	D 300	.25	B 587	.25	2.75	.....	3.00
Johnston Binder.....	3 x 2 3/8	.05	50 A	.25	L 296	.25	.....	3.00	3.00
Plano Binder.....	3 x 2 3/16	.05	L 300	.25	L 395	.25	2.75	.....	3.00
Plano Binder.....	3 x 2 1/4	.05	L 67	.25	L 66	.25	2.75	.....	3.00
Milwaukee Binder.....	3 1/4 x 2 1/4	.05	J 76	.25	H 41 3/4	.25	2.75	.....	3.00
Adriance Binder.....	3 x 2 1/2	.05	1265	.25	1245 A	.40	2.75	.....	3.00
Akron Buckeye Binder.....	3 x 2 1/2	.05	T 35	.25	H 700	1.00	2.75	.....	3.00

Leger Plates for all Machines, 5c. each. Section and Guard Rivets, 15c. lb. Guard Bolts for all Machines, 4c. each. Above we give a table of sizes, numbers and prices of Sections, Guards, Knife Heads and Knives complete, and combinations generally used. In some cases more than one Knife Head and Guard have been used with the same section. In ordering, always give number of Guard and Knife Head, also drawing of Section wanted, showing holes punched in Section. In ordering Knives complete, always give number of old Knife Head; also give number of cutting section.

REAPER SICKLE.

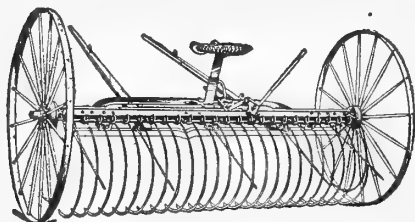
CUTTER. Prices on application.

MOWER KNIFE.

SECTION AND

GUARD RIVETS.

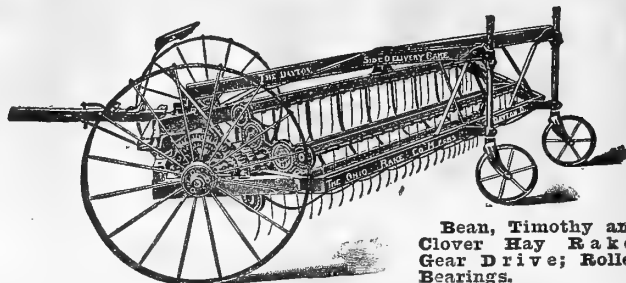
BALTIMORE STEEL-DUMP HAY RAKE



An efficient, convenient rake of great strength and durability. One-piece angle steel frame; steel axle extends from wheel to wheel and trussed to give double strength. Trip attachment very simple. It is attached to center of axle; equipped with hand lever; oil tempered steel teeth within independent tooth-holders; combined pole and shafts.

8 ft., 20 Teeth...List Price, \$36.00. Our Special Price, \$22.50
9 ft., 24 Teeth...List Price, 38.50. Our Special Price, \$24.00

Lord Baltimore Side-Delivery Rake



Bean, Timothy and Clover Hay Rake; Gear Drive; Roller Bearings.

Gathers the hay on the ground, and delivers it at one end of the machine in a continuous windrow. It is an all-gear drive machine; heavy, strong and powerful all the way through. List Price, \$100.00; Our Special Price, \$60.00.

Walter A. Wood Steel Self-Dump Rakes

8 ft., with 20 Teeth. List Price, \$35.00. Our Special Price, \$22.00
8 ft., with 24 Teeth. List Price, 36.00. Our Special Price, 22.50
9 ft., with 27 Teeth. List Price, 39.00. Our Special Price, 24.50

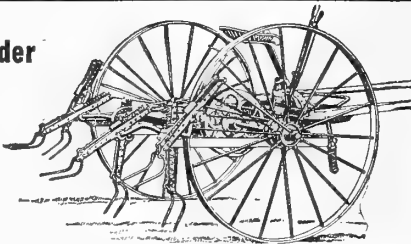
Lord Baltimore

Steel Tedder

Well-built, large ground wheels, free from vibration. Center chain drive.

6-Fork. List Price, \$60.00. Our Special Price, \$35.00.

8-Fork. List Price, \$66.00. Our Special Price, \$40.00.



Walter A. Wood Tedder

6-Fork. List Price, \$60.00. Our Special Price, \$35.00
8-Fork. List Price, 66.00. Our Special Price, 40.00

Rake Teeth

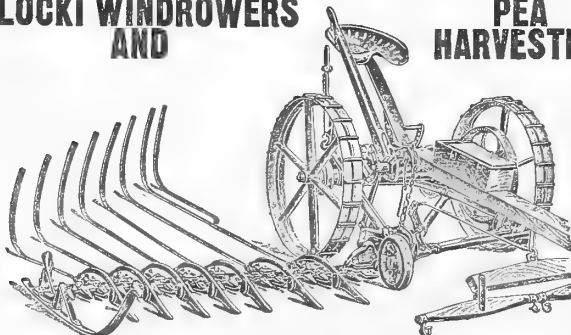
FOR ALL LEADING RAKES

In ordering, either send old tooth or exact drawing and avoid errors

List Price, 36c.
Our Special Price, 25c.

BLOCKI WINDROWERS AND

PEA HARVESTERS



Use the Blocki Windrower for harvesting the seed crops of red, alsyke, mammoth and alfalfa clovers. Sometimes also used for harvesting flax, buckwheat, and even short tangled grain. Is an excellent tool to harvest cow peas, beans, etc. Can be readily attached to any mower and gives the best satisfaction. The guards are strong, being made of malleable iron; the rods retain their shape because they are made out of the right kind of steel.

Blocki Pea Harvester No. 7X consists of 7 Guards, 7 Rods and Divider.

Blocki Pea Harvester No. 8X consists of 8 Guards, 8 Rods and Divider.

Blocki Pea Harvester No. 9X consists of 9 Guards, 9 Rods and Divider.

Prices:
No. 7X.....\$15.00
No. 8X.....17.10
No. 9X.....19.20
Windrower for 4½ or 5-ft. Mower.....13.50
Windrower for 6-ft. Mower.....15.75

Lord Baltimore Hay Loader



Has been carefully designed and embodies all of the up to date improvements.

By means of a simple adjustment, provided on each axle box, the rake bars can be raised or lowered to meet various conditions of the soil and the hay. This adjustment makes it unnecessary for the hitches on loader to be changed.

The rake bars are open construction, so that every part is visible.

The Lord Baltimore Hay Loader will certainly meet the wants of every farmer that desires a machine which is free of all complicated and intricate parts. Wheels, 46 inches diameter. Weight, 1213 lbs.

No. 1, with Steel Wheels, List Price, \$104.00; Our Special Price, \$65.00.

Tedder Forks

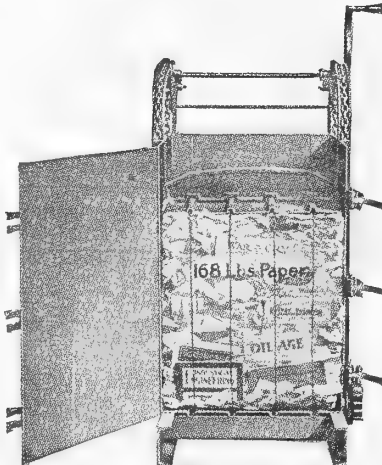


List Price, 40c. Our Price, 25c. Special Prices in Quantities.

Always on hand, stock of forks for leading styles of hay tedders.

When ordering tedder forks always state name of tedder, year it was made, if possible, and whether fork is in one of two pieces.

THE MODERN LEADER ALL STEEL BALER



This baler is a device that is so low in initial cost that the material which it conserves pays for it in a short time. It bales all kinds of material, such as paper, scrap, pasteboard boxes, excelsior, cloth clippings, old rags, tobacco stems, tin and galvanized scrap in can factories, steel shavings in machine shops, etc.

The great and increasing demand for all kinds of waste material of every description has put you in a position to change this waste into cash.

This device is so simple that anyone can easily operate it. It is compact and occupies a very small space—30x30 in. The machine stands 5 feet high, and is constructed entirely of highest quality steel. It is indestructible, and will last forever. The size of the bale which it makes is 20x24x30 ins., and weighs about 150 lbs.

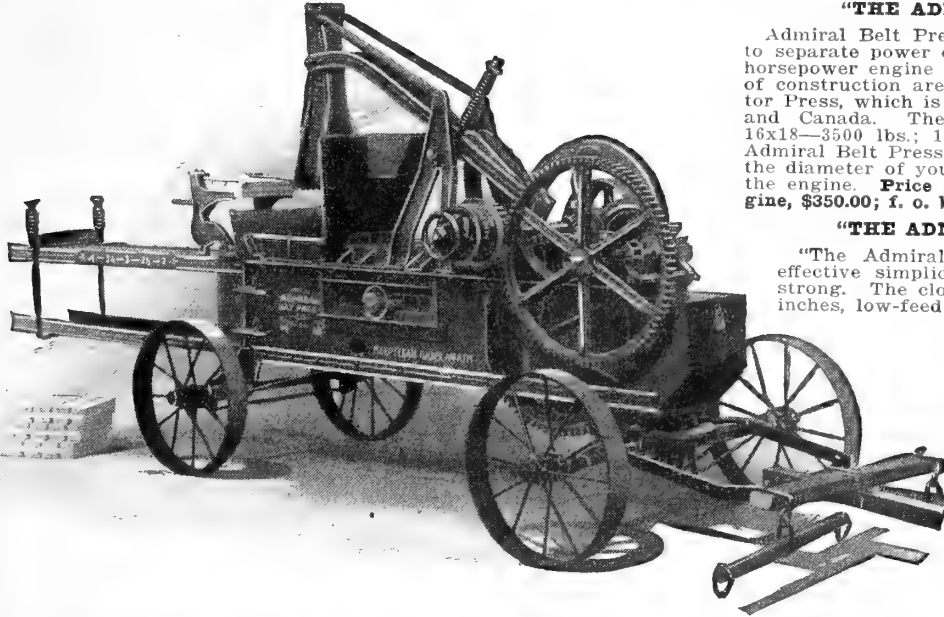
The modern Leader has an open top similar to any waste-basket. The plunger is raised when not being used, so that the baler can be filled without litter.

Send in your order today, and begin at once to stop up the money leaks in your waste material.

PRICE.....\$50.00.

THE FAMOUS ADMIRAL RACK AND PINION HAY PRESS

WITH PULLEY FOR BELT DRIVE OR WITH 7 H. P. ENGINE, GEAR DRIVE



"THE ADMIRAL BELT PRESS."

Admiral Belt Presses are built either for belting to separate power or for mounting a six- or seven-horsepower engine on the same trucks. The details of construction are identical with the Admiral Motor Press, which is in use all over the United States and Canada. The weights are 14-18—3300 lbs.; 16x18—3500 lbs.; 17x22—3750 lbs. In ordering the Admiral Belt Presses do not neglect to advise us of the diameter of your engine pulley and the speed of the engine. Price of Belt Power Press without engine, \$350.00; f. o. b. factory.

"THE ADMIRAL MOTOR PRESS"

"The Admiral Motor Press" is a marvel of effective simplicity. Few parts but those very strong. The close coupling, wheelbase, 10 feet 2 inches, low-feed opening, 42 inches, light weight, 4500 lbs. in the 14x18, 4700 in the 16x18, 4950 in the 17x22, including a 7-horsepower gasoline engine, make it an ideal rig for any kind of baling. The machinery is covered, out of the way. The Admiral movement, by which the leverage constantly increases as the hay is compressing, is the secret of the wonderful capacity and service of this famous hay press. Write for special Admiral folder, which explains the details fully. Price, with 7 H. P. engine, \$550.00; f. o. b. factory.

THE ADMIRAL 3-STROKE TWO-HORSE HAY PRESS

THE CELEBRATED TWO-MAN PRESS HAS SELF FEEDER AND CONDENSING PACKER

The Admiral two-man horse power hay press was the first three-stroke, self-feed hay press. Foot-feeding is dangerous and expensive. Admiral two-man hay balers save the most expensive labor on the press, the feeder. Three feeds to the round mean an extra feed to every round of the team, and make the draft easier and steadier on the horse. The 26-inch feed opening with three feeds gives you 78 inches of feed opening to every round of the teams. The construction is all steel and heavy cast. All small castings are malleable. Admiral Hay Presses built in the nineties are still baling hay. Built in standard sizes, the weights are respectively: 14x18, 3000 lbs.; 16x18, 3200 lbs.; 17x22, 3400 lbs. The Admiral Two-Man Press is equipped with tongue, neck-yoke, double trees, hay tray, forks, division boards and lifting jacks. An Admiral will keep that idle team of yours busy. Price, \$225.00; f. o. b. factory.

We regret that lack of space makes it impossible for us to properly illustrate this press here. We therefore request particularly that anyone interested in a two-horse sweep power press, write for special illustrated booklet.

THE LITTLE ADMIRAL HAY PRESS



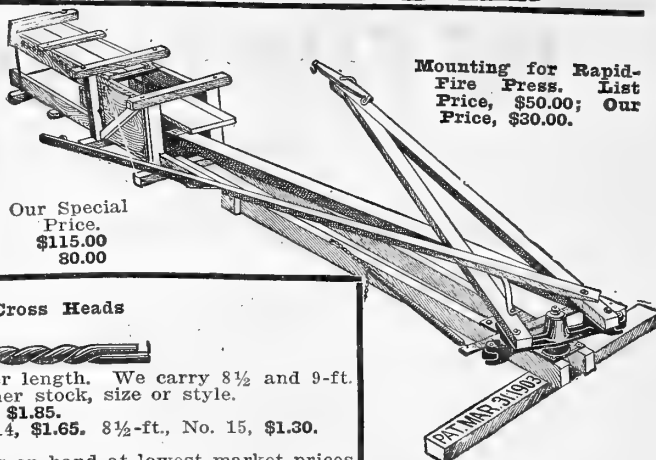
The Three-Stroke Fork Feed Little Admiral is intended for the farmer who has comparatively small acreage, and yet wants to do his own baling. It is the only three-stroke, one-horse hay press on the market. The short crank enables one horse to make as heavy bales as desired. It is all-steel, and built only in the 14x18 size, and weighs 2140 lbs. This press has met with wonderful success throughout the South, where a baler of this kind is in demand, on account of its big capacity, steady construction and light weight. Three feeds of 22 inches each give 66 inches of feed opening to every round of the horse. If you have as little as 50 tons to bale, it will pay you to own a Little Admiral. Price, \$150.00.

WE WILL AIM TO CARRY ON HAND IN OUR BALTIMORE WAREHOUSES SUFFICIENT ADMIRAL HAY PRESSES TO FILL ALL ORDERS PROMPTLY. FREIGHT FROM FACTORY IS ADDED WHEN SHIPPED FROM BALTO. STOCK.

RAPID FIRE HAY PRESS

In this press the end of Pitman extends far past end of drive arm; wedge and roller are on the opposite side of Pitman. The forward stroke begins by the drive arm pushing against roller on opposite side, thus pushing plunger rapidly forward at the beginning of stroke and while hay is still loose in box. The drive arm takes up the stroke just as the hay is becoming compact. With the one-horse Rapid Fire Press you get two 33-in. strokes to one round of horse.

	List Price.
One-Horse Rapid Fire All-Steel Press	\$200.00
One-Horse Rapid Fire Press	140.00



Mounting for Rapid Fire Press. List Price, \$50.00; Our Price, \$30.00.

Our Special Price.
\$115.00
80.00

BALING TIES



Cross Heads

Measure around the bale and add three inches to get the proper length. We carry 8½ and 9-ft. Cross Heads and 9 and 9½-ft. Single Loop. Can furnish any other stock, size or style.

CROSS HEAD BALE TIES—9-ft., No. 14, \$2.35 8½-ft., No. 15, \$1.85.

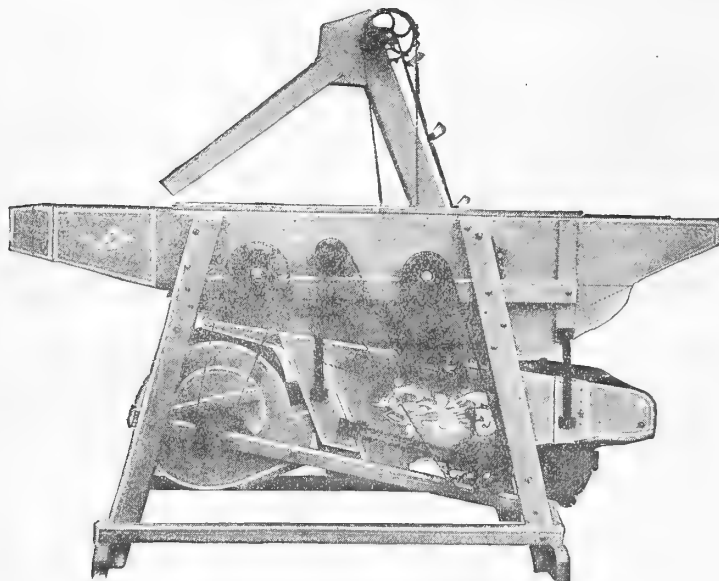
SINGLE LOOP BALE TIES—9-ft., No. 14, \$1.60. 9½-ft., No. 14, \$1.65. 8½-ft., No. 15, \$1.30.

A bundle contains 250 ties.

ANNEALED BALING WIRE—Nos. 11, 12, 13, 14 and 16 always on hand at lowest market prices on application. Special prices in quantity to Threshermen and Balers.

AMERICAN BEAN AND PEA THRESHER

STRONG AND EFFICIENT.



All material used in these Threshers is carefully selected. The frame is built out of the best hardwood lumber, extra heavy, and well braced so as to stand hard and continued usage. The concaves under each cylinder are made of wrought iron, into which the teeth are firmly fastened. Each concave is removable, so that one or more can be removed and blanks substituted if desired.

The crank shaft is made of best malleable iron, which insures it against breakage. The shaft boxes are extra long and heavy, and are babbitted. The principal bearings are fitted with hard oil cups, thus insuring years of wear.

The special Anti-choke Lip Sieves insures perfect separation. We furnish a ½-inch and 1-inch lip sieve, which can be adjusted according to the variety of beans or peas; these are fitted into the machine so they can be tilted at different angles.

The thresher is shipped complete with belts and 8-in. drive pulley with 5-in. face. The cylinder shaft should run about 325 R. P. M. to get the best results.

The No. 14 Thresher will do satisfactory work, and is just the machine for the grower of 10 acres or less; for farmers who raise more than ten acres of beans or peas, we recommend the No. 20 machine, as he will then be in position to take care of a larger crop, should he desire to increase his acreage.

REPEAT ELEVATOR—The repeat elevator is a great time- and labor-saving device. It is compact, light and durable, and is furnished to fit the No. 20 at price named below. **Prices: No. 14 Double Cylinder, \$85.00; No. 20 Double Cylinder, \$130.00; Repeat Elevator for No. 20, \$18.50.**

THE NO. 6 ROYAL PEA HULLER

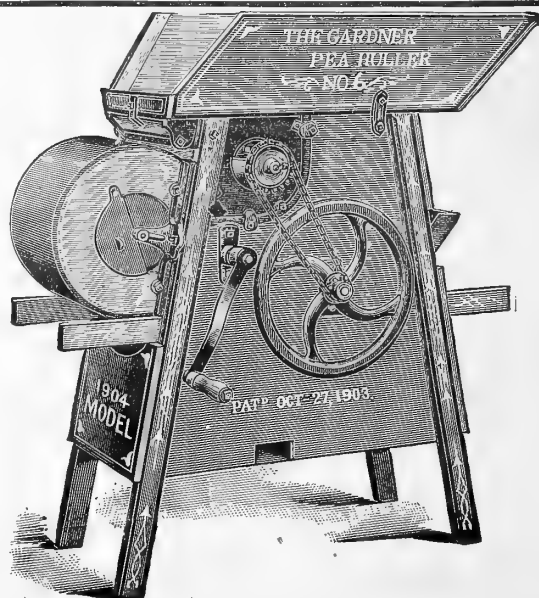
New model No. 6, with heavy bearings, wooden frame and box; malleable iron cylinder and concave sections. Teeth do not break. Heavy fly wheel and two cranks. Patent revolving screen, which insures absolutely clean peas and carries the refuse through a separate outlet. Reversible hopper to allow use of machine for cleaning wheat or other small grain. Cleans and thrashes the peas thoroughly without breaking them. Shipping weight 275 pounds. Can be furnished for operation by power by substituting a pulley and heavier shaft for one of the cranks at an additional net cost of \$2.50. Cow Peas intended for seed should be allowed to get more mature. These will unavoidably lose most of the leaves, but will still be good feed after the Peas are picked and threshed.

A very successful method of handling this crop is to pick the pods and thresh the Peas, turning the vines under, thus making the Cow Pea a profitable money producer (they always bring good prices) and at the same time a soil saver. It comes nearer solving the problem of "eating your cake and having it, too" than any other proposition on the farm. The price of Seed Peas in some seasons have ranged as high as \$4.00 per bushel, and it is therefore an object for every farmer to save his own seed (and sell them, too), which can best be accomplished by the use of a ROYAL PEA HULLER.

THE ROYAL PEA HULLER will save a larger per cent. of all the Peas than any other known method. The ownership of a Royal Pea Huller represents an outlay so small in comparison to the benefits, that no successful farmer will be without one.

Special and exclusive features to be had only with these machines are covered by patent, and cannot be had in any other make.

Capacity 8 to 15 bushels Dry Peas per hour. Price, \$27.50.



No. 6 Royal Pea Huller.

MARYLAND LEVER CUTTER

Strong, Cheap and Durable.



Knife, 11-inch. Wt., 55 lbs.

Retail, \$3.00

ROSS CYLINDER TYPE HAND CUTTERS

No. 11½—"WONDER."—Ratchet feeding device which can be adjusted to cut from ¼ inch to 2 inches; has wooden side springs for feeding rolls, large heavy flywheel, long reach crank, babbitted bearings, hardwood frame, securely bolted. A strong, easily operated box for cutting hay and fodder; has one knife, 11½ inches long, with a chilled shear plate, ground to an edge. **List, \$16.00. Retail, \$10.00.**

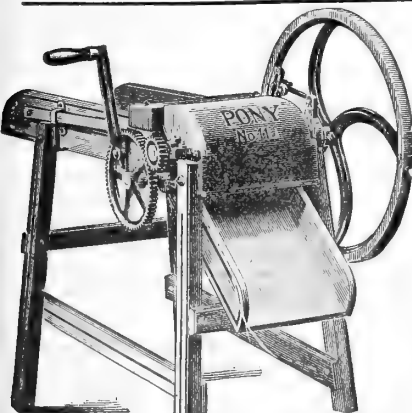
No. 11½—"FLYER."—The feeding rolls on this cutter are operated by means of cog wheels and sprockets. The feed is constant and uniform, and the cutter has large capacity. The feed rolls are equipped with coil tension springs; the cutter has large heavy flywheel, large crank, chilled shear bar and hardwood frame; length of cut, ¼ inch, ½ inch and 1 inch. Special gears for cutting ½ inch can be furnished on order. **List, \$23.00. Retail, \$18.00.**



The Baltimore Pony Cutter

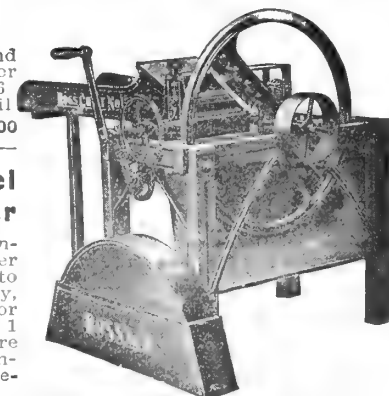
Adapted to cutting hay, straw and corn fodder, and is suitable for persons keeping from one to four or five animals. Weight, K. D., packed for shipment, 16 pounds. **List, \$10.00.**

One knife, 11½ in. long.....\$4.00



Ross No. 10 Knife on Fly Wheel Type of Cutter for Hand and Power

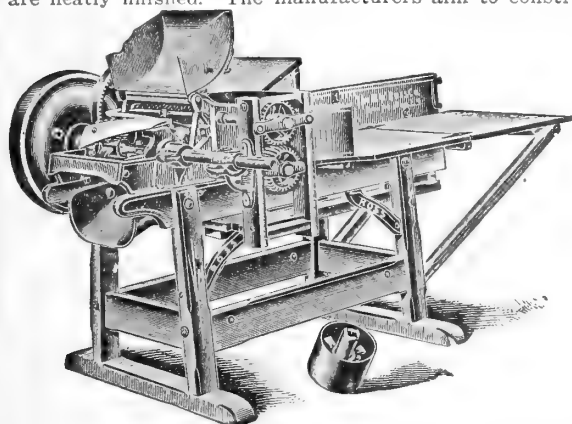
In the No. 10 Ross Cutter we are offering a very convenient machine for cutting corn fodder, hay, etc., either by hand or by power. It will be noted in addition to having a crank for hand use, it is equipped with pulley, so that it can be belted to small gasoline engine or horse power. It can be adjusted to cut ¼, ½, ¾ or 1 inch. It has two 11½-inch knives. All bearings are babbitted. The frame is of hardwood and strongly constructed. Weight, 300 pounds. **List Price, \$30.00. Retail, \$22.50.**



ROSS STANDARD HAY AND FODDER CUTTERS

The excellence of the Ross Fodder Cutters is well known. They are the result of over 50 years' experience in manufacturing this class of machinery. They are built strong and durable, possess valuable features for convenience and efficiency, and are neatly finished. The manufacturers aim to construct a line of cutters which will not only do the work, but do it so well that the buyer is sure to be pleased in every way. On account of lack of space, we cannot give a full description of the exclusive patented features possessed by the Ross Cutters, but will be pleased to mail to anyone interested in the purchase of a cutter a special catalogue of the Ross line. Will mention briefly here that some of these features are:

Very efficient feeding rolls, which are positive, and which are provided with a knuckle-joint arrangement to allow the rollers to readily adjust themselves to uneven feeding of the machine without binding or causing friction; a special comb bar for keeping the spiked roller clear; a four-sided reversible steel cutting plate; an improved type of safety flywheel; a practical and convenient knife adjustment; a special starting and stop lever, and the Ross folding feed table.



CARRIERS FOR ROSS CUTTERS

We list below two styles of carriers which can be furnished with Ross Cutters—the angle and straight carrier and the swivel carrier. These are illustrated and fully described in the Ross special catalogue.

ROSS SHREDDERS

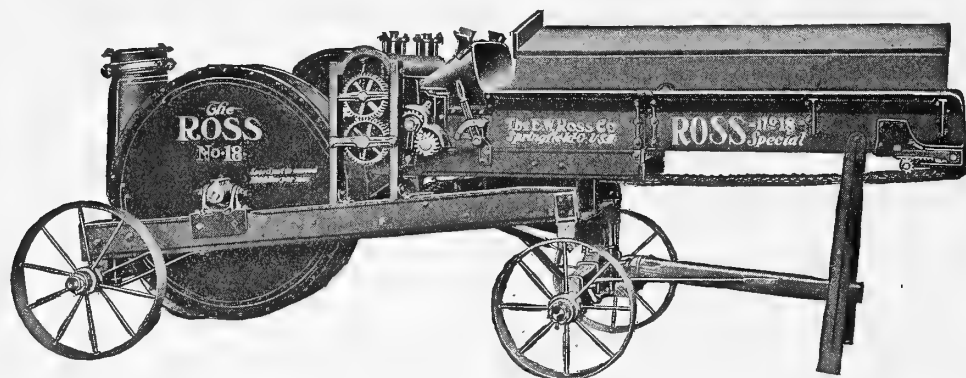
Ross machines can be furnished with either knife or shredder cylinder, as listed below.

Size.	Knives. Inches.	Capacity per Hour on 1-Inch Cut.		Power Required. H.-P.	Weight. Pounds.	Price, with Either Cutter or Shredder Cylinder.		Price of 12-Foot Angle and Straight Carrier.		Price of 12-Foot Swivel Carrier.		Extra Carrier per Foot Over 12-Foot.	
		Ensilage. Tons.	Dry Fodder. Tons.			List.	Retail.	List.	Retail.	List.	Retail.	List.	Retail.
*No. 09	2—9½	8 to 10 Hd. Stock.		1	265	\$35.00	\$24.50						
No. 111	4—11	3 to 4	1 to 1½	2 to 3½	425	50.00	35.00	\$34.00	\$23.80	\$38.00	\$26.60	\$1.75	\$1.25
No. 113	4—13	4 to 6	1½ to 2	2 to 5½	550	65.00	45.00	37.00	25.90	42.00	29.40	2.00	1.40
No. 116	4—16	8 to 10	2 to 3	4 to 6	650	90.00	63.00	27.00	25.90	44.00	30.00	2.00	1.40
No. 108	4—18	12 to 18	3 to 6	5 to 8	825	120.00	84.00	38.00	26.60	45.00	31.50	2.25	1.60

*No. 09 can be furnished with two flywheels for hand use. Shredder Cylinder: If both shredder and knife cylinders are wanted, add, No. 09, **List, \$16.00. Retail, \$11.25.** No. 111, **List, \$20.00. Retail, \$14.00.** No. 113, **List, \$22.00. Retail, \$15.40.** No. 116, **List, \$24.00. Retail, \$16.80.** No. 108, **List, \$32.00. Retail, \$22.40.** Extra Gears for 4-inch cut for No. 111, No. 113 and No. 116, **List, \$3.50. Retail, \$2.45.** No. 108, **List, \$4.00. Retail, \$2.80.**

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

ROSS IMPROVED ENSILAGE CUTTER WITH TRAVELING FEED TABLE AND ALL STEEL BLOWER



The illustration represents the Ross line of Silo Fillers especially designed for heavy work, such as large Plantations or by Threshermen for jobbing work.

Low Down, so that feeder stands on the ground instead of up on machine. Distance from ground to top of traveling table only 3 feet 9 inches. The most desirable machine made for convenience of the Feeder.

Adjustable Bearings for Blower Shaft. The merits of the adjustable bearing are known to all practical operators of machinery. No excuse whatever for the Ross Blower Bearings heating or running hard or consuming extra power.

Blower Casing, with Swivel and Tilting Rings. Combination Toothed and Fluted Feed Rollers with Comb Bar Attachment. Steel Shear Bar with Four Cutting Edges. This feature is accountable for the class of work turned out by the Ross. **Start, Stop and Reverse Lever.** This arrangement saves many a break and prevents delays of various natures. **Traveling Feed Table.** Folds up for convenience in moving from place to place and when storing away. **Steel Cutting Cylinder.** This is a point that must not be overlooked. If saving of time and repairs is worth anything, the **ROSS SILO FILLER** is worth double the price of any other. **Steel Blower.** No manufacturer likes to hear of their "Cast Iron" Blowers exploding on large size cylinder type Silo Fillers, but it will occur as long as it is made of Cast Iron. If our example was followed, and the Blower made of **SOLID STEEL**, like **THE ROSS**, the welfare of Silo users would then be taken care of. **Capacity, Durability, Simplicity in Construction and Quality of Work** have been the principal objects in the construction of **Ross Silo Fillers**. If these claims are not convincing, order the **ROSS SILO FILLER** and give it a trial. The results will be far more convincing than our claims.

Size.	Knives.	Capacity per Hour on 1-Inch Cut. Ensilage.	Power Required.	Weight.	Cutter with Traveling Feed Table and Blower with 30 ft. Pipe and Elbow Mounted on Truck.		Extra Galv. Blower Pipe, per foot.		Shredder Cylinders, Extra.	
					List.	Retail.	List.	Retail.	List.	Retail.
No. 16	4-16 inch	10 to 12 tons	10 to 12 H. P.	2600 lbs.	\$284.00	\$198.80	\$.80	\$.65	\$24.00	\$19.20
No. 18	4-18 inch	15 to 18 tons	12 to 16 H. P.	2800 lbs.	314.00	235.50	.80	.65	32.00	25.60
No. 20	4-20 inch	18 to 22 tons	14 to 16 H. P.	2900 lbs.	354.00	265.50	.80	.65	40.00	32.00

Extra Gears to cut 4 inches long, with 2 knives: No. 16, List, \$7.50; Retail, \$6.00. No. 18 and No. 20, List, \$7.50; Retail, \$6.00

ROSS IMPROVED ENSILAGE CUTTER WITH TRAVELING FEED TABLE AND BLOWER No. 12 and 14

The Nos. 12 and 14 Ross Silo Fillers are intended for the user who has small power ranging from 8 to 12 Horse Gasoline, and who from experience possibly, prefers this style of Silo Filler. The Ross Nos. 12 and 14 have all the important features that the larger Ross Machines have, as shown above, except the following:

Cutting Apparatus—The knife hubs are cast iron, the same as other makes of machines of this size. This is due to the fact that the work for which they are intended, and the power used to operate them, does not require this extra strength.

Blowing Apparatus—The disc to which the fans are attached is cast iron. The blowing fans are "Steel" boiler plate. With the exception of the disc being cast iron, the balance of the blowing apparatus is the same as on the larger machines. Guaranteed in every respect.

Blower Casing is cast iron in two parts securely bolted together. Equipped with new style pipe connection, including the swivel and tilting rings. This important feature is the same as used on the larger machines.

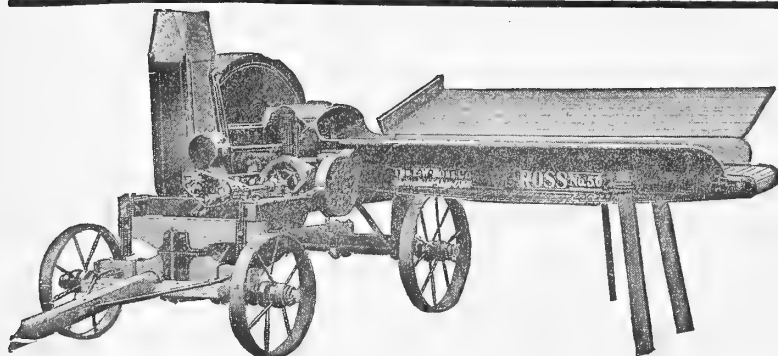
Traveling Feed Table—The same design is used on all Ross Silo Fillers.

Stop, Start and Reverse Lever exactly the same as used on larger Ross Silo Fillers. This device controls the Feed Rolls and Traveling Feed Table.

Method of Driving Blower and Cutter—We use the reliable 3-pulley drive. This has proven to be the most practical method in connection with the new Idler or Belt Tightener.

Low Down and Folding Traveling Table—The Folding Feature is valuable and convenient in many ways. Built low down means the feeder stands on the ground to feed machine, instead of getting up on the machine.

Size.	Knives.	Capacity per Hour on 1-Inch Cut. Ensilage.	Power Required.	Weight.	Cutter with Traveling Feed Table and Blower with 30 ft. Pipe and Elbow Mounted on Truck.		Extra Galv. Blower Pipe, per foot.		Two Shredder Blades, Extra.	
					List.	Retail.	List.	Retail.	List.	Retail.
No. 12	4-13 inch	6 to 8 tons	8 to 10 H. P.	1700 lbs.	\$232.50	\$162.75	.75	.53	\$14.50	\$10.15
No. 14	4-15 inch	8 to 10 tons	10 to 12 H. P.	1900 lbs.	257.50	180.25	.75	.53	16.00	11.20



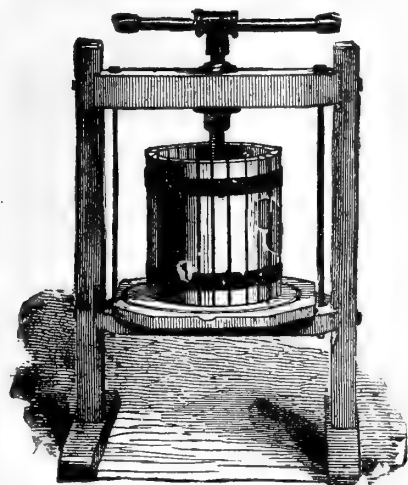
ROSS No. 30, No. 40, No. 50 and No. 60 CUTTERS and BLOWERS

The knives on flywheel type of Ross Silo Filling Machines with Blower have made a home for themselves with all their users. This is due to the fact that they possess the required strength and features to enable them to accomplish the work of filling silos in a way that brings comment from all. Realizing the fact that users of this class of goods expect more and more each year in the line of quality and quantity of work, they possess features fully described in the special catalogue, which we will be pleased to mail, namely: Four-sided reversible steel cutting plate, positive tension to the feeding rolls, special knife adjustment, self-aligning and adjustable main shaft bearings and roller shaft bearings, extra bearings for main shaft, special balanced main frame, etc.

Size.	Throat Capacity.	Capacity per Hour on 1-Inch Cut. Ensilage.	Power Required.	Weight With- out Truck.	Cutter with Traveling Feed Table and Blower, not including Blower Pipe or Elbow.		Galv. Blower Pipe, Including Elbow, per Foot.		Two Shredder Blades and Attachments.	
					List.	Retail.	List.	Retail.	List.	Retail.
No. 30	38 sq. ins.	4 to 6 tons	6 to 8 P. P.	800 lbs.	\$186.00	\$111.75	\$138.00	\$82.75	\$.60	\$.42
No. 40	55 sq. ins.	6 to 8 tons	6 to 8 H. P.	1250 lbs.	239.50	143.75	184.00	110.50	.80	.56
No. 50	72 sq. ins.	8 to 10 tons	8 to 10 H. P.	1450 lbs.	258.50	155.00	203.00	122.00	.80	.56
No. 60	85 sq. ins.	12 to 18 tons	12 to 14 H. P.	1800 lbs.	315.50	190.00	260.00	156.00	.90	.63

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

BERRY PRESS



	List Price.	Our Special Price.
No. 1, weight 50 lbs..	\$6.00	\$3.75
No. 2, weight 65 lbs..	7.50	4.50
No. 3, weight 90 lbs..	12.00	7.00

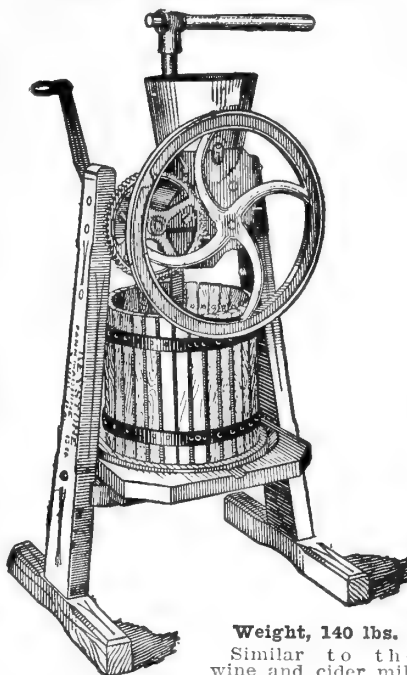
WAGNER FRUIT AND LARD PRESS



These presses are very strong and durable. Having a large screw and long leverage makes them easy to operate.

	List.	Retail.
4-quart	\$4.50	\$3.00
6-quart	5.25	3.50
8-quart	6.00	4.00

BALTIMORE SPECIAL CIDER AND WINE MILL

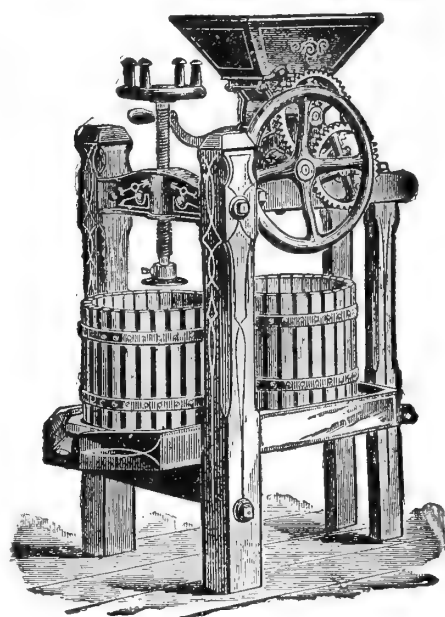


Weight, 140 lbs.

Similar to the wine and cider mill described, only it is larger and will take larger apples, and, being a geared mill, will do much more rapid work.

List Price	\$16.50
Our Special Price	10.00

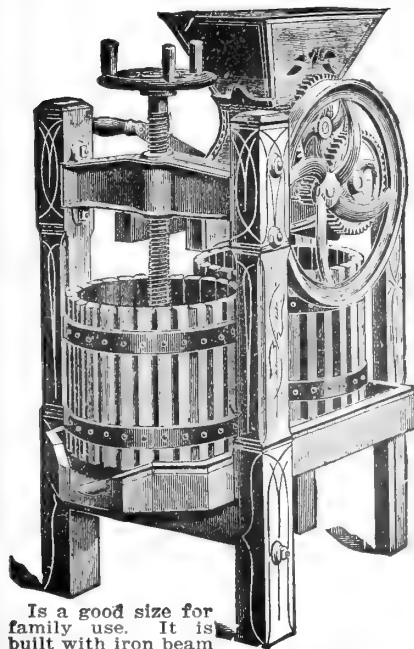
"JUNIOR" DOUBLE CAGE HAND CIDER MILL



This is a small double cage mill of good capacity, and will work in a very satisfactory manner. It is made of hardwood, and, having specially constructed grinders, gives good results. Capacity, 2 to 4 barrels of cider per day. Weight, 220 lbs.

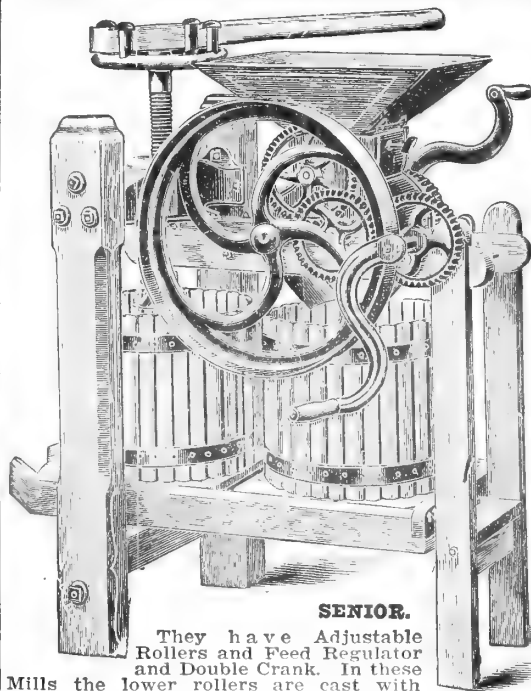
List Price	\$21.00
Our Special Price	12.50

"MEDIUM" DOUBLE CAGE HAND CIDER MILL



Is a good size for family use. It is built with iron beam and heavy gearing, and is perfectly adjustable for all sizes of apples. Capacity 6 to 8 barrels of cider per day. Weight, 240 lbs.
List Price.....\$26.00
Our Special Price..... 17.50

"Senior" Hand and Power Cider Mill



SENIOR.

They have Adjustable Rollers and Feed Regulator and Double Crank. In these Mills the lower rollers are cast with alternate rims and grooves interlocking to draw in the apples. Fruit is mashed between the smooth segments, thoroughly breaking all the cells so that cider is entirely extracted in press. Balance wheels are heavy and mill can be run by power. The mills are very strong. They are made of best material, nicely finished, and are easy to operate. Capacity, 6 to 12 barrels of cider per day. Weight, 475 lbs. List Price, \$38.00; Our Special Price, \$25.00.

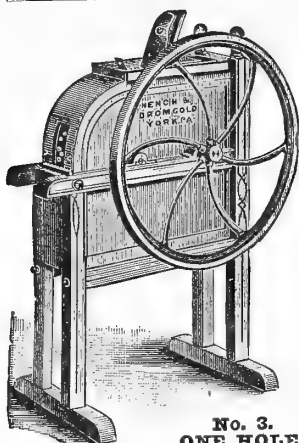
Removable Basket Handles



Easily and quickly adjusted. Saves fruit and time. Baskets carried without mashing fruit.

List Price, dozen.....	\$2.80
Our Special Price, each...	.15

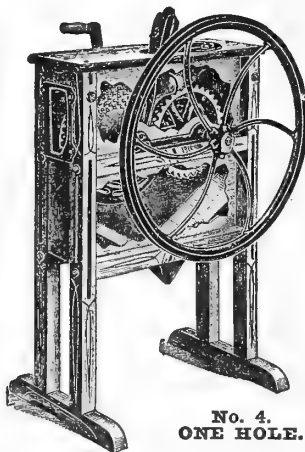
THE BALTIMORE SHELLERS



**No. 3.
ONE HOLE.**

Separates corn and cob. Fan will clean corn for market. Corn discharged beneath Sheller, cobs at end. Easily adjusted for large or small ears. Capacity, 125 bushels a day.

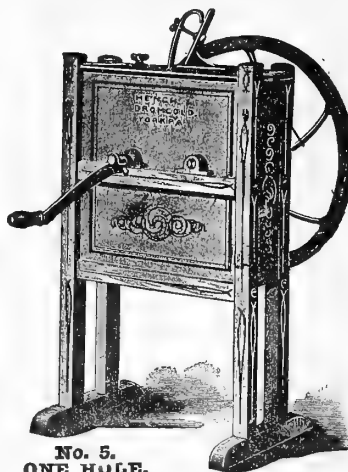
Plain, List Price, \$13.00; Our Special Price, \$7.75. With Fan, List Price, \$14.50; Our Special Price, \$9.25.



**No. 4.
ONE HOLE.**

Screens corn; side delivery; light running; strong, steel shafts. Capacity, 125 bushels a day.

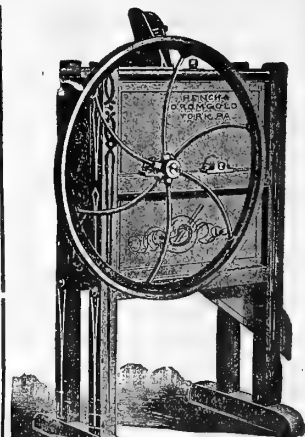
Plain, List Price, \$13.20; Our Special Price, \$7.90.



**No. 5.
ONE HOLE.**

Capacity, 125 bushels per day; single spout; left hand. Corn and cobs separated.

List Price, \$12.80; Our Special Price, \$7.50.

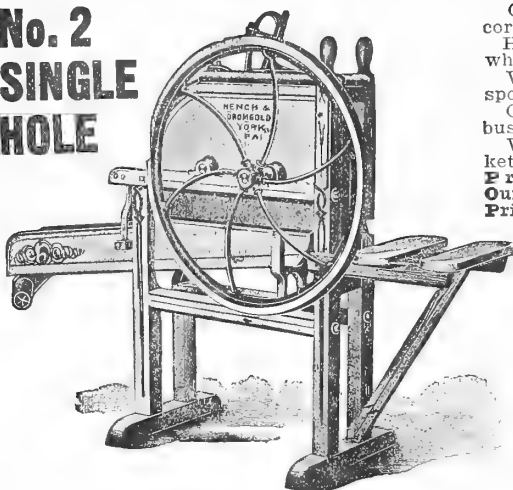


**No. 6.
ONE HOLE.**

Runs shelled corn and cobs together. Capacity, 125 bushels per day.

Plain Sheller, List Price, \$12.00; Our Special Price, \$7.00.

**No. 2
SINGLE
HOLE**



Cleans the corn thoroughly. Heavy fly-wheel.

Wrought spokes.

Capacity, 125 bushels per day.

Without basket holder, List

Price, \$17.00;

Our Special

Price, \$10.00.

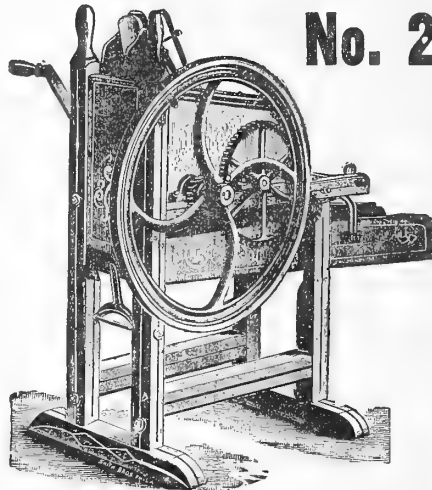
Basket Holder, extra, List Price, \$1.20.

Our Special Price, 75c.

Feed table, extra, List Price, \$2.00;

Our Special Price, \$1.25.

**No. 20 Double
Spout**

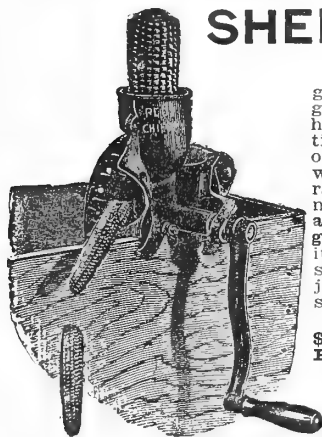


Hand and power, with shaker belt and flywheel. Capacity, 200 bushels per day. Capacity by power, 500 to 600 bushels. No. 18 similar to No. 20, but without shaker and with screen at bottom to take out dust or dirt.

No. 20, with shaker, List Price, \$27.00; Our Special Price, \$16.00.

No. 18, without shaker, List Price, \$25.00; Our Special Price, \$15.00.

RED CHIEF CORN SHELLER



This sheller is guaranteed to do good work. It is heavy in construction, with patent oval shaped teeth, which are so arranged to shell more rapidly and avoid injuring the grain, thus making it safe for shelling seed corn. Adjusts itself to any size ear.

List Price, doz., \$30.00; Our Special Price, each, \$1.75.

Weight, 12 lbs.

"Black Hawk" Corn Sheller

Weight, 14 lbs. Shells Fast, Clean and Easily.

Black Hawk is simple, easily adjusted and will shell clean all kinds of field corn.

List Price, dozen, \$34.00; Our

Special Price, each, \$2.00.



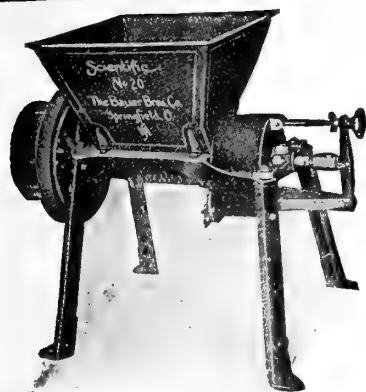
**1903
BLACK HAWK
CORN SHELLER**

Old Dominion Style P HAND CORN SHELLER



List Price, dozen, \$32.00; Our Special Price, each, \$2.00.

See regulating thumb-screw to set sheller for either large or small ears. Shells clean. Shells popcorn. Clamps with bolts and wrench with each machine. Chilled shaft and bearings. Weight, crated, 20 lbs.



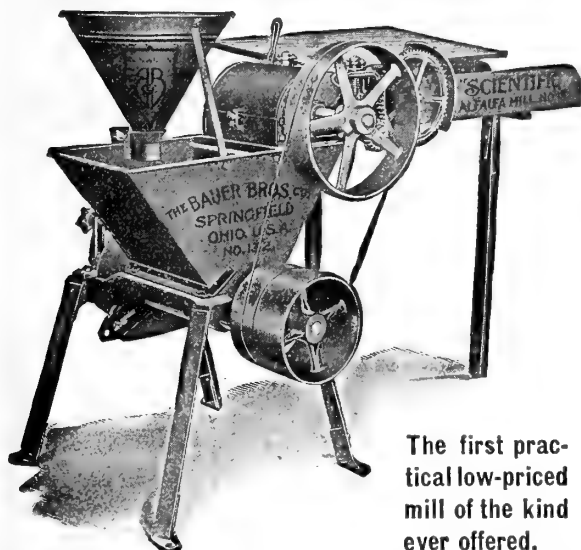
Scientific No. 20 Grinding Mill

This is an excellent mill for from 2 to 5 horse-power gasoline engine, and will grind either cob corn, shelled corn, oats, and other small grains. Has heavy flywheel. Regular size pulley is 8x4. Has cold rolled steel shaft, end thrust ball-bearing, 8-inch high carbon grinding plates. A very efficient cob-crushing device, angle steel legs, babbitted shaft boxes, and is furnished with one set of fine and one set of coarse grinding plates; capacity, 8 to 25 bushels per hour; speed, 400 to 500 R. P. M.; weight, 250 pounds. Price, \$22.50.

Scientific No. 30 Grinding Mill

Same general type of mill as the Scientific No. 20, but is much larger, and has about twice the capacity. Recommended for engines from 7 to 12 horse-power. Capacity, from 20 to 40 bushels per hour; speed, 400 to 500 R. P. M.; grinding plates, 10-inch; weight, 375 pounds. Price, \$35.00.

Scientific No. 132 Alfalfa and Cob Corn Grinder

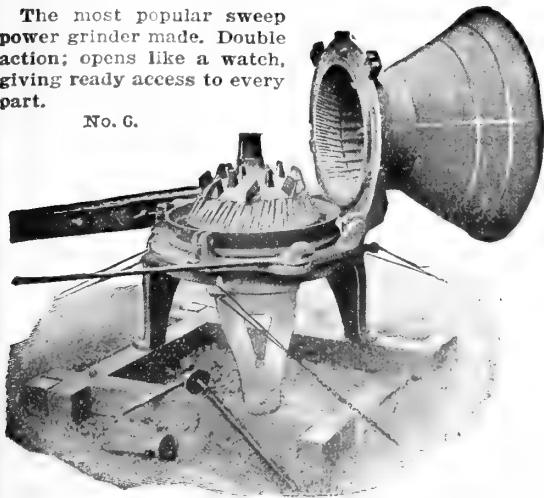


The first practical low-priced mill of the kind ever offered.

Will grind alfalfa, clover, cowpea and peanut hay either separately or in connection with cob corn, and it can be handled with from four to eight horse-power. We feel that this mill fills a long-felt want. Shipping weight, 400 pounds. Price, \$57.75.

The most popular sweep power grinder made. Double action; opens like a watch, giving ready access to every part.

No. 6.



Scientific No. 6 New Geared Sweep Mill

Gearing consists of three gear pinions, which revolve on independent chilled studs. Mill grinds all grains, but is especially effective and rapid on ear corn, and double-action feature, which is applied to these mills, prevents lodging in hopper at end of a run. Its capacity is 10 to 15 bushels per hour. Weight of mill, 700 pounds. Price of Mill, with extra plates and two baskets, \$35.00.

Scientific No. 5 Triple-Geared Sweep Mill

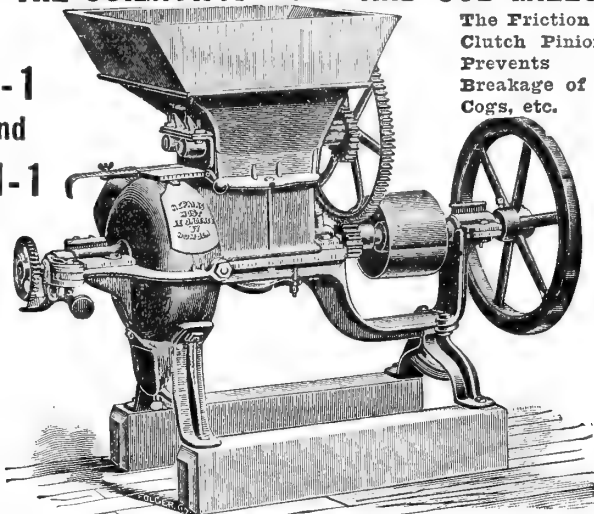
A triple-geared double-action sweep mill, similar in principle to the No. 6, but about one-third less in capacity, and instead of being provided with baskets for catching ground product, it is mounted on a heavy box, in which the grain is caught. The upper half of the mill does not open on a hinge like the No. 6. Well adapted to grinding ear corn or shelled grain, runs light and does splendid work; weight about 550 pounds. Price, with one set of grinding plates, \$27.50.

Scientific No. 7 Sweep Mill

A splendid single-acting mill; that is, one of the grinding burrs is stationary, while the other moves with the team. Will grind either ear corn or small grain, and the grade of product can readily be regulated, as the burrs can be adjusted without stopping the mill. A very desirable mill for the farmer who wishes to grind feed in small quantities; weighs about 400 pounds and can be operated by one or two horses; has a capacity of from five to ten bushels per hour. Price, with one set plates, \$22.00.

THE SCIENTIFIC CORN AND COB MILLS

L-1
and
N-1



The Friction Clutch Pinion Prevents Breakage of Cogs, etc.

These mills are especially valuable for large dairy farms, stables and for anyone doing custom work. They are provided with double breakers in bottom of hopper, which run at different rates of speed; a second break crusher, on main shaft, friction clutch pinion, end thrust, ball-bearing, safety break bar.

L No. 1.—Capacity, 20 to 40 bushels per hour; speed, 1000 to 1200 R. P. M.; horse-power required, 10 to 20; drive pulley, 8x6; weight, 550 pounds. Price, \$60.00.

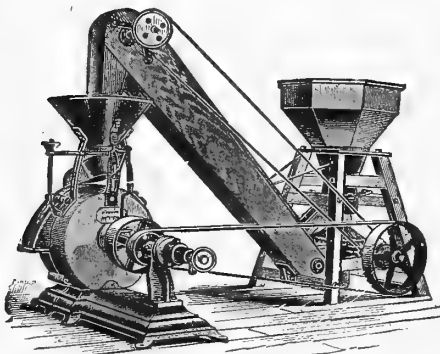
N No. 1.—Capacity, 20 to 50 bushels per hour; speed, 900 to 1000 R. P. M.; horse-power required, 12 to 15; drive pulley, 10x8; weight, 775 pounds. Price, \$75.00.

SPROUT WALDRON MONARCH FRENCH BURR MILLS, EAR CORN CRUSHERS AND COMBINED OUTFITS

Monarch French Burr Mills are made of the best material, in the best mechanical workmanlike manner, and when properly installed and operated will do their work nicely. Below will be found a table stating the capacities of the different mills, power required, etc. These mills are suitable for grinding corn and cob, shell corn, oats, barley, etc. It will pay you to write for special booklet describing them more fully.

PRICES, DIMENSIONS, CAPACITY, WEIGHT, ETC., OF MONARCH BURR MILLS:

Size of Mills Inches Diameter	Size of Pulley		Revolutions per Minute	Horse Power Required.	Weight in Pounds	Capacity per hour Feed Meal	Capacity per Hour Table Meal	Floor Space Base Occupies Inches.	List Price	Our Price f. o. b. Factory	Our Price f. o. b. Baltimore.
	Diameter Inches.	Face Inches									
12	8	5	1000 to 1200	4 to 6	500	12 to 15 bu.	5 to 7 bu.	20x39	\$137.50	\$75.65	\$86.40
16	10	6	1000	6 to 10	800	20 to 25 bu.	10 to 12 bu.	22x45	160.00	99.00	112.00
20	12	8	900	10 to 15	1350	40 to 50 bu.	15 to 20 bu.	24x54	250.00	137.50	154.00
24	16	8	800	15 to 25	1800	60 to 70 bu.	20 to 25 bu.	27x57	320.00	176.00	192.00
30	20	8	750	20 to 30	2500	70 to 100 bu.	25 to 30 bu.	30x53	420.00	231.00	252.00



This illustration shows the Monarch Standard Burr Mill and Monarch Ear Corn Crusher with elevator.

MONARCH EAR CORN CRUSHERS

No. 1—30x30-inch floor space; capacity, 12 to 30 bushels corn ears per hour; weight, 350 pounds. Factory list, \$56.00. Retail, f. o. b. Factory, \$33.60; f. o. b. Baltimore, \$37.10.

No. 2—36x36-inch floor space; capacity, 40 to 90 bushels corn ears per hour; weight, 750 pounds. Factory list, \$80.00. Retail, f. o. b. Factory, \$48.00; f. o. b. Baltimore, \$52.75.

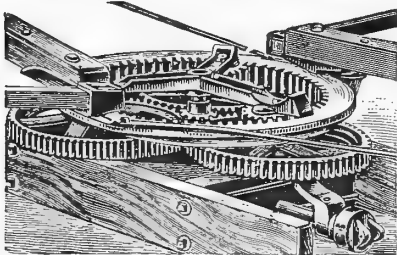
MONARCH COMBINED CORN AND COB OUTFIT

We illustrate here our Monarch Combined Outfit, for grinding either ear corn or shelled grain. The ear is first crushed in the ear corn crusher and then elevated to the hopper of the mill and is ground fine. When shelled grain is to be ground, the corn is placed directly in the hopper of the mill and the ear corn crusher and elevator need not be run. Prices of these outfits, as given below, include mill, crusher, elevator and small belts to run crusher and elevator.

PRICES MONARCH COMBINED OUTFITS.

	Floor Space.	List Price.	Our Special Price. f. o. b. Factory.	Our Price. f. o. b. Balto.
12-inch Mill, No. 1 Crusher, 86x46-inch.....		\$214.00	\$117.70	\$128.45
16-inch Mill, No. 1 Crusher, 90x54-inch.....		256.00	140.80	153.80
20-inch Mill, No. 2 Crusher, 104x67-inch.....		350.00	192.50	209.00

SWEEP HORSE POWER



Two Horse-power, Geared.
60-1, with two sweeps.....\$45.00
Spur Jacks..... 12.00

Gandy Canvas Stitched Belting

Made by the most improved machinery from cotton duck manufactured especially for the purpose.

	List.	Retail.		List.	Retail.
2-in., 4-ply..	24c. ft.	12c. ft.	6-in., 4-ply..	60c. ft.	30c. ft.
3-in., 4-ply..	35c. ft.	18c. ft.	6-in., 6-ply..	90c. ft.	45c. ft.
4-in., 4-ply..	43c. ft.	22c. ft.	8-in., 4-ply..	80c. ft.	40c. ft.
5-in., 4-ply..	51c. ft.	26c. ft.	8-in., 6-ply..	1.20 ft.	60c. ft.

Prices of Other Widths and Flies to Order.
When Endless Belts are wanted add 3 feet extra for lapping.

RUBBER BELTING

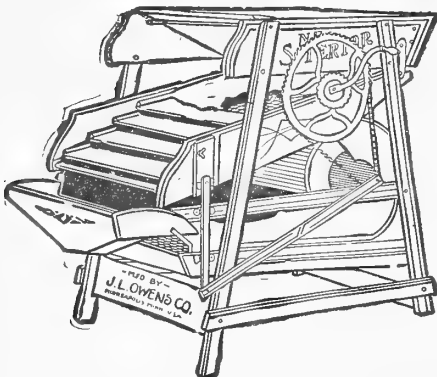
	List.	Retail.		List.	Retail.
3-in., 3-ply..	30c. ft.	17c. ft.	5-in., 3-ply..	50c. ft.	28c. ft.
3-in., 4-ply..	37c. ft.	21c. ft.	5-in., 4-ply..	61c. ft.	34c. ft.
4-in., 3-ply..	40c. ft.	22c. ft.	6-in., 4-ply..	72c. ft.	40c. ft.
4-in., 4-ply..	50c. ft.	28c. ft.			

Larger and smaller sizes on application.

Cut Raw-Hide Belt Lacing

3/4-in., per 100 ft..	\$3.75
1/2-in., per 100 ft..	5.50
5/8-in., per 100 ft..	6.50
3/4-in., per 100 ft..	7.50

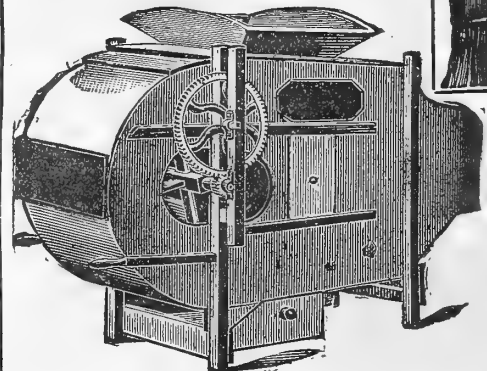
OWENS' SUPERIOR FANNING MILL



The sieves are made of No. 8 Zinc and screens woven from best annealed wire. The screens in No. 1 Mill have a cleaning surface of six square feet, and No. 2 Mill eight square feet. The upper and lower shoes are the same size, so that the sieves and screens can be interchanged. Every New Superior is furnished regularly with thirteen sieves or screens with which more different grains can be perfectly cleaned, graded and separated than double the number in an ordinary mill, doing the work perfectly and without waste. The following special attachments are extra and only shipped when ordered, viz.: Millet, Alfaifa, Bean, Barley and Macaroni Wheat. Bagging attachment extra.

No. 1—Width Sieves, 21 inches; Weight, 175 lbs.; Price.....	\$25.00
No. 2—Width Sieves, 32 inches; Weight, 230 lbs.; Price.....	30.00
Weight Bagging Attachment, 50 lbs.; Price.....	7.50

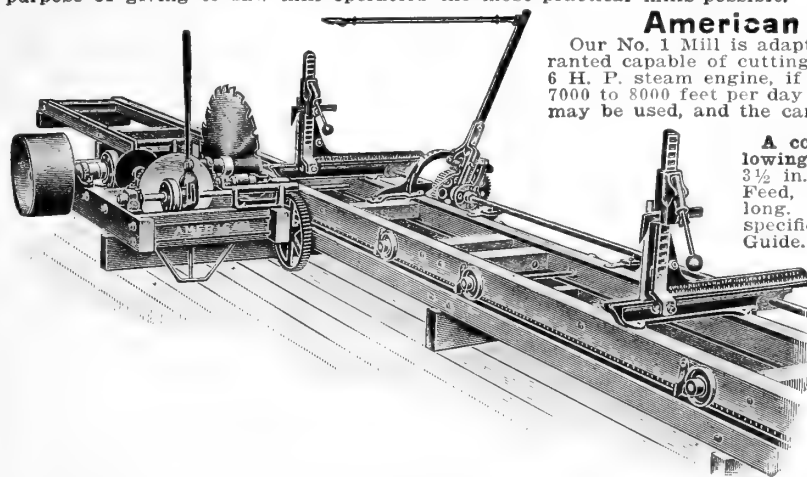
Baltimore Improved Grain Fan



Will clean from 60 to 100 bushels per hour. Made of best material and finished in a neat and tasty manner. Price.....\$22.50
Sieves, each, \$1.50. Screens, each, \$1.50.

THE AMERICAN VARIABLE FRICTION FEED SAWMILLS

American Saw Mills are recognized as embodying superior design the most advanced and up-to-date ideas, superior workmanship and, in short, they are outfits which have been carefully thought out by designers of wide experience for the purpose of giving to saw mill operators the most practical mills possible.



American No. 1 Standard Sawmill

Our No. 1 Mill is adapted to any power from 6 to 15 H. P. It is warranted capable of cutting 2000 feet of board lumber per day with a good 6 H. P. steam engine, if properly handled, and is capable of turning out 7000 to 8000 feet per day with a 15 H. P. engine. Any size up to 52 inches may be used, and the carriage will carry logs up to 36 inches diameter.

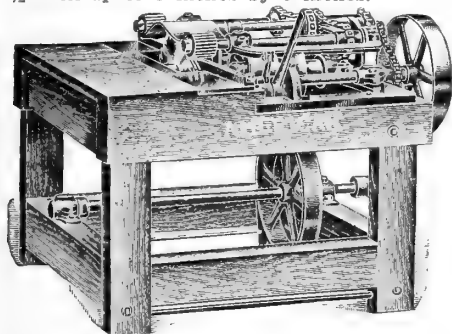
A complete Standard No. 1 Mill consists of the following:—**HUSK FRAME** 7 feet by 3 inches, built of 3½ in. by 7½ in. timbers, fitted with Variable Friction Feed, Polished Steel Mandrel 2 3/16 in. by 4 ft. 4 in. long, Mandrel Pulley, 20 in. by 10 in. (unless otherwise specified); also Board Roll, Spreader Wheel and Saw Guide.

CARRIAGE 16 ft. long, 26 in. wide, built of timbers 3½ in. by 5½ in., having Feed Rack 22 ft. long. Four Trucks with 6 in. wheels and 1½ in. steel axles. 40 ft. of "V" and Flat Rolled Steel Track, fitted to way timbers framed up in sections. Two Head-blocks, opening 34 inches with Champion Duplex Dogs. "Ideal" Set Works, with Quick Receder and 14 ft. of polished steel Set Shaft; also Belt Tightener, foundation bolts, cant hook, oil can and wrenches. **Saw is extra, according to size and style selected.** Weight of mill as above, 2800 lbs. (If way timbers are not wanted, deduct 450 lbs.)

Cant Hooks, No. 318B—2½ in. x 4 ft. Price.....\$1.25
Cant Hooks, No. 318B—2½ in. x 4½ ft. Price.....1.50
Peavies, No. 9—2¾ in. x 5 ft. Price.....1.75

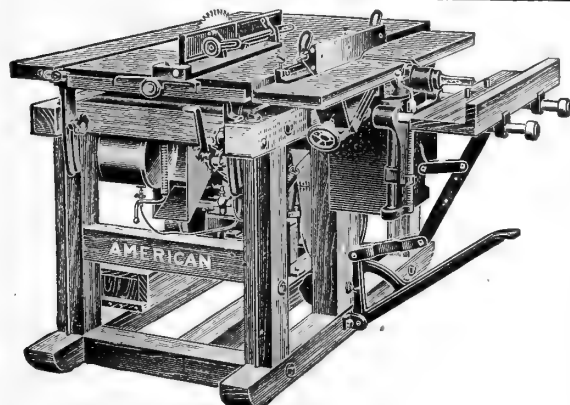
AMERICAN GANG LATH MILL

Can be furnished as a lath mill only as shown by illustration or as combined lath mill and bolter. The best machine of the kind on the market, possessing valuable features not found on any other make. It is adapted to cutting lath slats or crate stock of any width from ½ inch to 3 inches of various thickness; also small dimension stock from ½ inch to ½ inch up to 3 inches by 3 inches.



Three Saws furnished, unless otherwise ordered, but can be fitted to carry six; capacity 30,000 to 50,000 laths per day.

	With 3 Saws.	With 4 Saws.
List Price.....	\$130.00	\$134.00
Our Price.....	97.50	100.00
Combined Lath Machine and Bolter.		
List Price.....	\$200.00	\$204.00
Our Price.....	150.00	152.50
Special Feed for Slats and Dimension Stock.		
List Price.....	\$12.00	Our Price.....\$9.00



No. 1—Standard Saw Mill, with rack and pinion drive without saw. List Price, \$280.00. Our Special Price, \$210.00. With Wire Cable Carriage Drive, without saw. List Price, \$305.00. Our Special Price, \$228.75. If track with way-timbers are not wanted, deduct from List Price \$18.00, from our Special Price, \$13.50. If Belt Tightener is not wanted, deduct from List Price \$14.00; from Our Special Price, \$10.50.

Write for catalog of larger sizes.

AMERICAN MILL SAWS.

48-inch Solid Tooth. List Price, \$75.00; Our Special Price	\$40.50
50-inch Solid Tooth. List Price, \$85.00; Our Special Price	45.90
48-inch Inserted Tooth. List Price, \$113.00; Our Special Price	61.02
50-inch Inserted Tooth. List Price, \$127.00; Our Special Price	68.58



"UP-TO-DATE" SHINGLE MACHINE

It will make shingles, heading, box boards, crate slats, etc., equally well. Carriage is very substantial, and provided with

a strong iron yoke that will admit saws up to 36 inches in diameter; 24-inch saw is regularly furnished. Can be used either as hand power or power feed machine. When ordered an edger and knot saw with 8-inch saw and a convenient gauge are furnished. Capacity from 3,000 to 10,000 shingles per day, depending upon power, character of work and expertness of operator. Weight with edger, 625 pounds; power required, 4 to 8 H. P. Complete with edger and 24-inch shingle saw and 8-inch edging saw. List Price, \$115.00; Our Special Price, \$86.25. Without edger, but with 24-inch shingle saw, List Price, \$100.00; Our Price, \$75.00.

AMERICAN CONTRACTOR'S PORTABLE VARIETY WOOD WORKER

A time-saver; a money-maker. Take it right to the job, and do your work on the job, as you want it, when you want it. Built for work, and lots of it. The saw gauge and jointer fence are instantly removable for cutting off long lumber. What it is—a rip saw, a cut-off saw, a mitre saw, a scroll saw, a Dado machine, a gaining machine, a grooving machine, a rabbitting machine, a tenoning machine, a jointer, or planer, a rabbitting machine, a matcher, a molder, a sander, a hollow chisel mortiser. These can be furnished with gasoline engine built in, making them self-contained, or where electric current is available with electric motor built in. Net prices, f. o. b. factory. Complete with Hollow Chisel Mortiser, Boring Attachment and Jig Saw—

With 7 H. P. Engine and Magneto Built in.....	\$332.00
With 3 H. P. Engine and Magneto Built in.....	282.00
Without power or inside belt.....	187.00
With countershaft and inside belt, without power.....	200.00

The following may be left off and prices reduced accordingly:
Hollow Chisel Mortiser-Boring Attachment, if not wanted, deduct 32.00
Jig Saw, if not wanted, deduct..... 15.00
Magneto, if not wanted, deduct..... 10.00

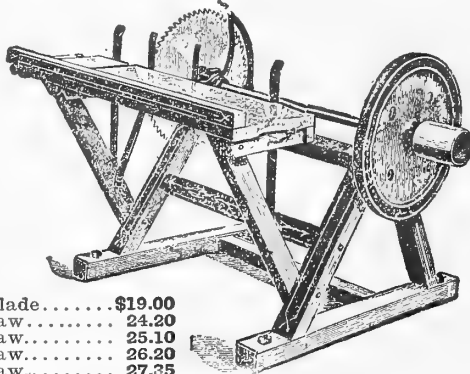
Prices with built-in electric motors depend on kind of current.

APPLETON WOOD SAWS

Appleton Saw Frames are made heavy of hard wood, are mortised and tenoned throughout and fitted with patent dust-proof self-aligning babbitted boxes. They are celebrated for their rigidity and durability. Special circular on application.

Common-Sense Tilt- ing Table Wood Saw

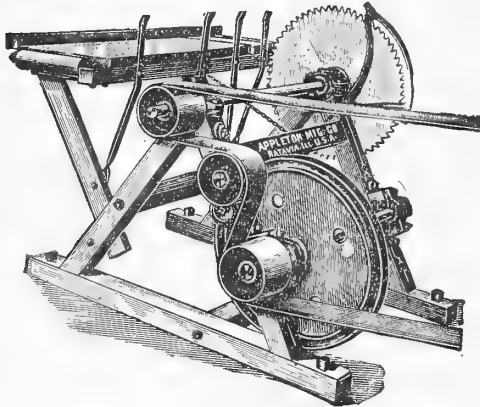
The most popular style for sawing cord wood. Pulley 6x6 inches. Speed, 1000 to 1500 R. P. M. Weight, 208 lbs.



Without Saw Blade.....	\$19.00
With 22-inch Saw.....	24.20
With 24-inch Saw.....	25.10
With 26-inch Saw.....	26.20
With 28-inch Saw.....	27.35
With 30-inch Saw.....	28.50

Appleton Common-Sense Saw.

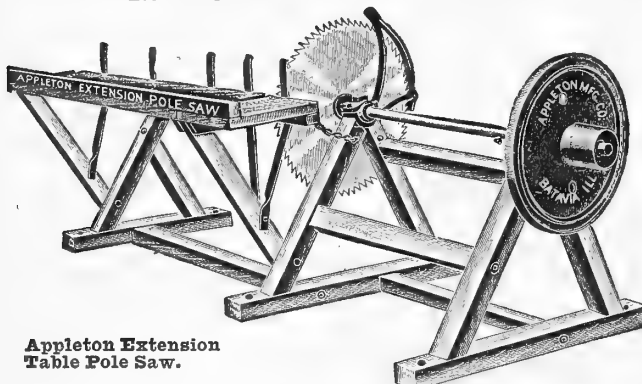
NEW STYLE TILTING TABLE POLE SAW



A very popular style for sawing long logs. Requires more power to operate than either of the styles mentioned above. Pulley, 6x6 inches. Speed, 1200 to 2000 R. P. M. Weight, 403 pounds.

Without Saw Blade.....	\$27.50	With 28-inch Saw.....	\$35.85
With 24-inch Saw.....	33.60	With 30-inch Saw.....	37.00
With 26-inch Saw.....	34.70		

EXTENSION TABLE POLE SAWS



Appleton Extension
Table Pole Saw.

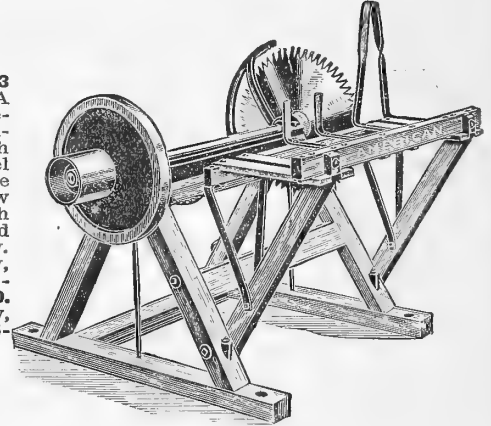
As cut shows, the feed table of this frame is a little longer than regular, and is arranged so that long sticks can be handled on it. Pulley, 6x6 inches. Speed, 1000 to 1500 R. P. M. Weight, 354 pounds.

Without Saw.....	\$22.00	With 28-inch Saw.....	\$30.35
With 24-inch Saw.....	28.10	With 30-inch Saw.....	31.50
With 26-inch Saw.....	29.20		

GRITCO WOOD SAWS

Gritco Frames are made of heavy hardwood, mortised and tenoned, and well braced. They have split boxes, heavy mandrels and balance wheels.

**Gritco No. 3
Wood Saw**—A strong, well-designed, convenient frame, with heavy mandrel and balance wheel, and now equipped with an improved guard for saw. Frame only, \$16.50. With 22-in. Saw, \$21.70. With 24-in. Saw, \$22.60. With 26-in. Saw, \$23.70.



Gritco Wood Saw. No. 3. Weight, 300 lbs.

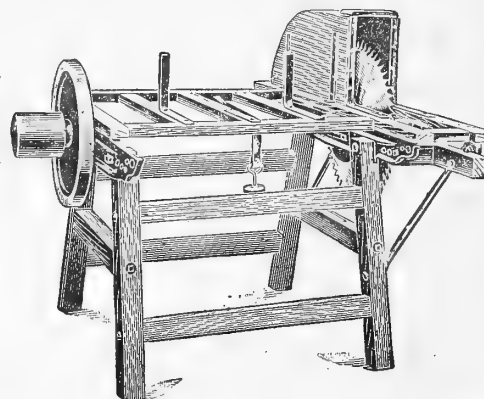
See Page 189 for Prices of Saws.

GRITCO SAW MANDRELS



52 inches long, complete with large babbitted boxes, flywheel and pulley. Price, \$11.00.

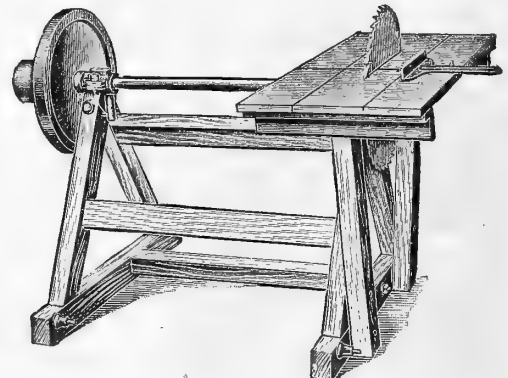
GRITCO No. 6 SLIDE TABLE SAW



**Gritco No. 4
Saw**—Similar to Ext. Table Saw. Frame only, \$20.00. With 24-inch Saw, \$26.10. With 26-inch Saw, \$27.20. **Gritco No. 5
Saw**—Similar to New Style Pole Saw. Frame only, \$22.50. With 24-inch Saw, \$28.60. With 26-inch Saw, \$29.70.

**Gritco No. 6
Sliding Table
Saw**—Frame only, \$20.00. With 24-inch Blade, \$26.10. With 26-inch Blade, \$27.20.

HANDY RIP SAW TABLE



Handy Rip-Saw Table, which can be attached to any of our Gritco Wood or Pole Saws. Weight, 40 lbs.

Rip-Table Attachment for a Gritco Saw Frame, without Saw, \$4.00.

Rip-Saws—16-inch, \$3.90; 18-inch, \$4.80; 20-inch, \$5.70.

ATKINS' CELEBRATED SAWS

HAND SAW.



HAND SAWS.

No. 38—American straight back; plate on handle. Our special price, 75c. each.

No. 59—Sheffield Saw Works. Skew back; beech handle; polished edge, 7 to 9 points. Factory list price, \$14.00 per doz. Our special price, \$1.00 each.

No. 54—Silver steel; beech handle; straight back; polished edge, 7 to 9 points. Factory list price, \$22.00 per dozen. Our special price, \$1.50 each.

No. 53—Silver steel, skew back; carved and polished apple handle, with Atkins' perfection handle. Factory list price, \$25.50 per dozen. Our special price, \$1.75 each. Special Prices in Quantities.

PRUNING SAW.



PRUNING SAWS.

No. 2 Duplex Pruning Saws.
16-inch. Our special price... 65c.
18-inch. Our special price... 75c.
20-inch. Our special price... 85c.

ONE MAN CROSS-CUT SAW, American Tooth.

3 ft., \$1.50; 3½ ft., \$1.75; 4 ft., \$2.00; 4½ ft., \$2.25. Special Prices in Quantities.

Gritco Cross-Cut Saws, Narrow American.



NARROW AMERICAN.

5 ft.—Our special price.....\$1.30
5½ ft.—Our special price.....1.40
6 ft.—Our special price.....\$1.60
Special Prices in Quantities.
Price of Cross-Cut Saws is Without Handle. Climax Handles, 15c. per Pair.



GRITCO CROSS-CUT SAWS, WIDE BACK, AMERICAN.

Wide American Tooth, Silver Steel, 5, 5½ and 6 Feet. Gauge, 14x16.

Factory list price, 5 ft.....\$2.30	Our Special Price.....\$2.00
Factory list price, 5½ ft.....2.54	Our Special Price.....2.25
Factory list price, 6 ft.....2.76	Our Special Price.....2.50

Tuttle Tooth, Cast Steel. Gauge, 14x16.

Factory list price, 5 ft.....\$2.30	Our Special Price.....\$2.00
Factory list price, 5½ ft.....2.54	Our Special Price.....2.25
Factory list price, 6 ft.....2.76	Our Special Price.....2.50

Special Prices in Quantities. Price of Cross-Cut Saws is Without Handle.



WOOD SAWS

No. 617—Wood brace frame; single rivet; painted red; plain tooth; breasted blade; 2¼ inches wide. Our special price, 60c.

No. 523—Wood brace frame; single rivet; selected stock; high finish; painted red; jumbo rod tinned; Tuttle tooth; breasted blade, 2¼ inches wide. Our special price, 75c.

No. 823—Cantilever frame; selected maple stock; fine natural wood finish; jumbo rod tinned; Tuttle tooth blade breasted, 2¼ inches wide. Our special price, \$1.00.

Wood Saw Bucks, 35c.



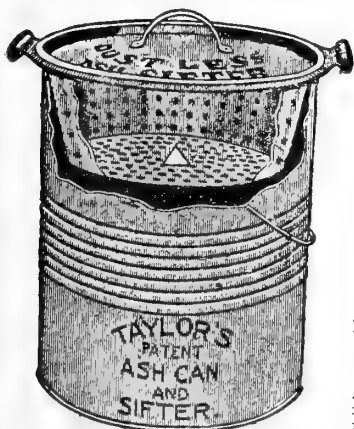
GRITCO CIRCULAR SAWS

These Saws are the result of over 50 years' study and experience. Absolutely the best steel is invariably used and each blade is given a tough, even temper and perfect tension, all of which is essential to the successful running of the saw. The workmanship of these blades is unequaled. The prices given are for saws sharpened and set. We send blades with 1½-inch hole on 24-inch and 26-inch, and 1½-inch on 28-inch and 30-inch.

	List Price.	Retail Price.
22-inch, No. 12 gauge.....	\$11.50	\$5.20
24-inch, No. 11 gauge.....	13.50	6.10
26-inch, No. 11 gauge.....	16.00	7.20
28-inch, No. 10 gauge.....	18.50	8.35
30-inch, No. 10 gauge.....	21.00	9.50

Saw Mandrels.—Write for Special Circular of Sizes and Prices.

DUST PROOF COAL ASH SIFTER AND CAN



This is the most complete dust-less coal ash sifter on the market. You can take the ashes from the furnace or stove and put them in the can, which does the sifting without the least dust.

They are made of heavy galvanized iron, which will stand hard usage.

No.	Diam. Ins.	Ht. Ins.	Wt. Lbs.	Price.
1	14	14	8¼	\$2.50
2	14	17	9¼	2.75
3	14	20	10¼	3.00
12	14	18	18	4.00
14	17	26	28	5.50
24	17	26	30	6.25
34	17	26	31	6.75

MONITOR ASH CANS

Galvanized.



No.	Cap. Gals.	Prices.
2½	10	\$2.00
3	17½	2.25
4	22½	2.50

Covers for Cans—2½, 30c.; 3, 40c.; 4, 50c.

The prices of cans do not include covers.

GARBAGE CANS

Galvanized.



No.	Cap. Gals.	Prices.
00	5¼	\$0.80
02	6¼	.90
03	8¼	1.05
04	10¼	1.25

These prices include covers.

BAKER WINDMILLS AND TOWERS

Baker Windmills and Towers fairly bristle with good points. Lack of space keeps us from describing them here, but we will be pleased to mail a descriptive catalogue to any one contemplating the purchase of a windmill. If you are going to buy a windmill, be sure to buy THE BAKER.

8-ft. Baker Windmill.....List, \$44.00. Our Price, \$27.50.
10-ft. Baker Windmill.....List, 59.40. Our Price, 37.50.

FOUR-POST GALVANIZED ANGLE STEEL WINDMILL TOWERS.

Height.	For 8-foot Mill.		For 10-foot Mill.	
	List.	Our Price.	List.	Our Price.
30 feet.....	\$41.50	\$26.15	\$46.00	\$28.98
40 feet.....	60.00	37.80	66.00	41.58
50 feet.....	77.75	48.38	88.00	55.44
60 feet.....	.....	.....	115.00	72.45
70 feet.....	.....	.....	151.00	95.13

SUB-STRUCTURES FOR ELEVATING TANKS.

Constructed of galvanized angle steel with flat braces, furnished with foundation rods and plates for concrete or masonry piers, and with ladder from ground to top of structure. Sizes listed here are the most popular; special prices on larger outfits. Illustration shows one of these sub-structures with platform and hand rail with 10x10 ft. tank, plain conical top and with the windmill for pumping above the tank, the windmill tower being erected inside of tank. Write for estimate.

Height.	For 6x6-ft. Tank.		For 8x8-ft. Tank.		For 10x10-ft. Tank.	
	List.	Our Price.	List.	Our Price.	List.	Our Price.
12 feet.....	\$47.00	\$33.84	\$68.00	\$48.96	\$89.00	\$64.08
15 feet.....	52.00	37.44	79.00	56.88	99.00	71.28
20 feet.....	67.00	48.24	98.00	70.56	130.00	93.60
25 feet.....	81.00	58.32	115.00	82.80	158.00	113.76
30 feet.....	98.00	70.56	141.00	101.52	190.00	136.80
34 feet.....	113.00	81.36	154.00	110.88	213.00	153.36
39 feet.....	131.00	94.32	179.00	128.88	250.00	180.00
Steel Beams for under tank.....	16.00	11.52	44.00	32.58	84.00	60.48
18-in. Walkway and Hand Rail.....	49.00	35.28	62.00	44.64	74.00	53.28
Steel Outside Tank Ladder.....	5.00	3.60	5.80	4.18	6.00	4.32
Cypress Inside Tank Ladder.....	2.00	1.44	2.70	1.95	3.00	2.16
Plain Conical Top, Float and Indicator Board.....	16.00	11.52	21.00	15.12	31.00	22.32
	8.00	5.76	9.00	6.48	10.50	7.56

Suburban Outfit.

Substructure and Tank with Windmill.

BAKER SUBURBAN OUTFITS

No.	Height of Tower.	Elevation of Bottom of Tank.
No. 1.....	30 feet.	7 feet 8 inches.
No. 2.....	35 feet.	12 feet 1 inch.
No. 3.....	35 feet.	14 feet.
No. 4.....	40 feet.	19 feet 6 inches.
No. 5.....	45 feet.	21 feet 6 inches.
No. 6.....	50 feet.	19 feet 6 inches.
No. 7.....	50 feet.	26 feet.
No. 8.....	50 feet.	19 feet 6 inches.
No. 9.....	60 feet.	30 feet.
No. 10.....	60 feet.	30 feet.
No. 11.....	60 feet.	19 feet 1/2 inch.
No. 12.....	60 feet.	19 feet 1/2 inch.

Prices do not include Mill. For prices on 8-ft. and 10-ft. Mill, add prices of Mills as listed at top of page.

Capacity of Tank.	With 2-in. Cypress Tank.		1 1/2-in. Cypress Tank.	
	List.	Our Price.	List.	Our Price.
16 bbls.	\$115.00	\$76.67	\$108.00	\$72.00
16 bbls.	120.00	80.00	112.00	74.67
11 bbls.	115.00	76.67	107.00	71.34
16 bbls.	140.00	93.34	132.00	88.00
16 bbls.	160.00	106.67	152.00	101.34
33 bbls.	180.00	120.00	172.00	114.67
20 bbls.	165.00	110.00	158.00	105.34
32 bbls.	175.00	116.67	168.00	112.00
27 bbls.	205.00	136.67	198.00	132.00
32 bbls.	210.00	140.00	200.00	133.34
52 bbls.	230.00	153.34	215.00	143.34
64 bbls.	240.00	160.00	230.00	153.34

BRASS VALVES.

	1/4-in.	1/2-in.	3/4-in.	1-in.	1 1/4-in.	1 1/2-in.	2-in.
Globe Valves.....	\$0.45	\$0.60	\$0.65	\$1.20	\$1.50	\$2.10	\$3.00
Gate Valves (Fig. 100).....	.50	.90	1.20	1.50	2.00	2.75	3.75
Heavy Swing Check Valves.....	.80	.90	1.00	1.25	1.60	2.00	3.00
Jenkins Disk Globe & Angle Valves.....	1.10	1.50	1.90	3.00	3.00	3.75	6.00
Lever Handle Stop.....	.60	.85	1.25	2.00	2.75	4.00	.....
Lever Handle Stop and Waste.....	.65	.90	1.35	2.15	3.00	5.00	.....
Compression Bibbs, Plain.....	.60	.70	1.75	3.00	.....	.....	.....
Compression Hose Bibb Cocks.....	.65	.90	1.90	3.25	.....	.....	.....
Relief Valves.....	2.40	2.50	3.60	4.50	6.00	.....	.....

GALVANIZED PIPE FITTINGS.

	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Elbow (Fig. 4)....	05	05	06	06	10	15	18	30
Street Elbow (Fig. 5).....	05	06	07	10	15	18	22	40
45 Deg. Elbow.....	05	06	07	08	14	22	32	30
Tee.....	06	07	08	10	12	15	22	35
Cross.....	06	09	14	18	27	30	36	54
Bushing.....	03	04	05	06	07	08	09	13
Lock Nut.....	03	04	05	05	06	07	08	12
Caps.....	03	03	05	06	08	10	14	20
Plugs.....	03	03	04	04	05	06	07	10
Reducers.....	..	..	06	10	12	15	20	25
Malleable Union (Fig. 11).....	14	16	16	18	22	30	38	50
Octa. Penn. Galv. Union.....	22	30	38	45	60	90	1.20	1.50
Coupling.....	04	05	06	08	10	14	17	20
Ft. Valve (Fig. 13).....	..	..	..	..	40	50	60	90

GALVANIZED NIPPLES.

1/2 x 1 1/2 or 1 1/2.....	\$.04
1/2 x 2, 2 1/2, 3, 3 1/2.....	.05
3/4 x 1 3/8 or 2.....	.05
3/4 x 2 1/2, 3, 3 1/2, 4.....	.06
1 x 1 1/2 or 2.....	.06
1 x 2 1/2, 3, 3 1/2, 4.....	.07
1 1/4 x 1 1/2 or 2 1/2.....	.08
1 1/4 x 3, 3 1/2, 4, 4 1/2.....	.11
1 1/2 x 1 1/2 or 2 1/2.....	.08
1 1/2 x 3, 3 1/2, 4, 4 1/2.....	.12

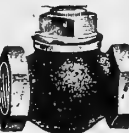
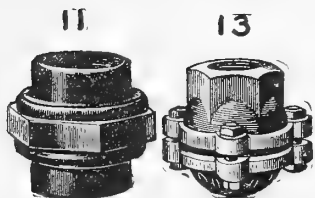


Fig. 103



Galvanized Steel Storage Tanks



All dimensions given are measured outside over all. All List Prices and weights based on Tanks and Troughs made from No. 20 Gauge Galvanized Sheets. For No. 18 Gauge Tanks add 30 per cent. to No. 20 Gauge Lists. For No. 16 Gauge Tanks add 60 per cent. to No. 20 Gauge Lists. Every tank carefully inspected before leaving factory to insure tank being watertight.

ROUND-END GALVANIZED TANKS.

No.	Width.	Height.	Length.	Capacity.	Wght.	List.	Retail.
	Ft.	Ft.	Ft.	Gals.	Lbs.		
101.....	2	2	4	91	74	\$9.00	\$6.75
102.....	2	2	5	117	88	10.50	8.03
103.....	2	2	6	144	102	11.50	8.63
L.....	2 1/2	2	5	145	93	12.00	9.00
M.....	2 1/2	2	6	178	110	13.00	9.75
N.....	3	2	6	213	134	15.00	11.25
108.....	2 1/2	2	8	245	141	16.00	12.00
111.....	3	2	8	295	156	17.00	12.75
112.....	3	2	10	384	185	19.50	14.62
116.....	4	2	8	386	169	18.50	13.88
117.....	4	2	10	496	203	23.00	17.25

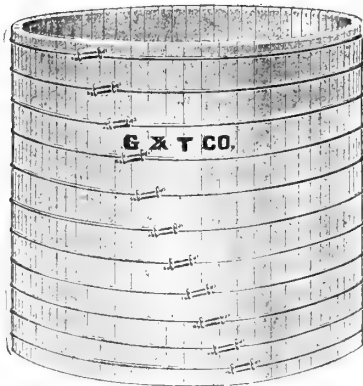
ROUND GALVANIZED TANKS.

No.	Diam.	Height.	Capacity.	Weight.	List.	Retail.
	Ft.	Ft.	Gals.	Lbs.		
1.....	3	2	91	69	\$9.00	\$6.75
2.....	4	2	166	97	11.00	8.25
3.....	4	2 1/2	215	106	12.50	9.38
4.....	4	3	254	115	14.00	10.50
5.....	4	4	338	145	16.50	12.38
6.....	4	5	423	168	19.00	14.25
7.....	4	6	508	191	22.00	16.50
8.....	4	8	688	220	28.00	21.00
9.....	5	2	262	129	14.50	10.88
10.....	5	2 1/2	342	141	16.00	12.00
11.....	5	3	411	154	17.50	13.13
12.....	5	4	548	181	21.00	15.75
13.....	5	5	675	211	25.50	19.13
14.....	5	6	810	240	29.00	21.75

Prices on larger sizes and special tanks quoted on application.

CYPRESS TANKS

These storage tanks are made of carefully selected red gulf cypress. We avoid the use of upland or cheaper grade of cypress, and in getting tanks from us you can rely upon high-grade material and workmanship. Tanks are made with round hoops and draw lugs, which give more strength and which do not rust like flat hoops.



Diameter.	Stave.	Capacity.	1 1/2-in. cypress.	2-in. cypress.
Ft.	Ft.	Gals.	List.	Retail.
3	3	110	\$12.00	\$8.50
4	3	315	21.00	14.00
5	2 1/2	212	21.00	14.00
5	4	467	25.80	17.25
5	5	597	28.90	19.50
6	4	688	31.80	21.50
6	6	1072	42.00	28.00
7	7	1738	58.00	39.00
8	6	1940	61.00	41.00
8	8	2639	76.00	51.00
10	10	5300	.....	155.00

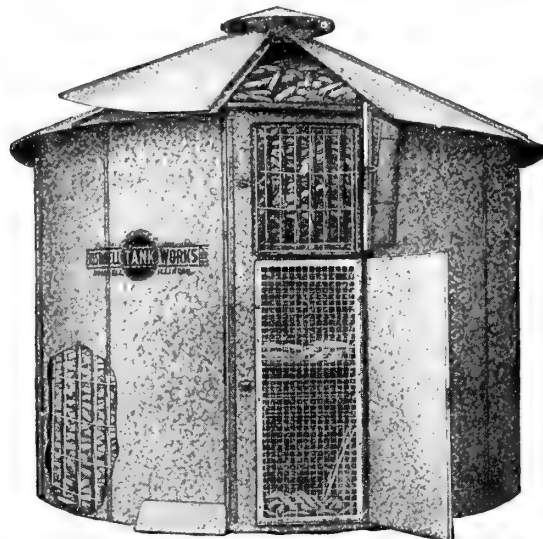
Prices on other sizes quoted on application.

In many localities this is rapidly displacing the dipping tank and other disinfecting devices, requiring no attention and getting better results. Provides a clean, wholesome wallow. Made in four sizes, all 9 inches deep and Pipe Tipped Edge.

Diam.	Weight.	Price.	Diam.	Weight.	Price.
4 ft.	70	\$6.80	6 ft.	130	\$11.52
5 ft.	100	9.36	7 ft.	180	15.44

BUSHNELL GALVANIZED STEEL GRAIN BIN

Can be converted into a Rat Proof Steel Corn Crib



All seams are vertical and re-inforced with heavy iron bands. No round-about-seams to collect moisture, to rust, or to complicate erection in the field. "BUSHNELL" construction is rust-proof and cyclone proof. Made heavier throughout than any other bin. The extra material costs us more than the difference in price to you. The "BUSHNELL" is the cheapest on the market, considering what you get. Being shipped in a roll ready to connect at top and bottom makes the "BUSHNELL" the easiest to erect. We do not leave most of the assembling to be done by the customer. We make only galvanized bins No. 20 gauge throughout. Any other material is too light. Renters moving can knock a "BUSHNELL" down for shipment in two hours.

Doors and door openings are of heavy angle construction. The inner shield, in large door, for scooping, is of same construction. Large door opening is 60"x24". Shoveling door opening is 30"x24". Both absolutely water tight. Spout has locking device. A large hinged cover is furnished on top with provision for locking.

Prices on attachments to convert this grain bin into a corn crib quoted on application.

These prices are for the bins complete with the regular equipment, except the No. 700 and No. 701 bins are not furnished with ventilators. All sizes shipped knocked down. The number of openings for the spout vary with the height of the bin.

No.	Diam.	Hght.	Cap'y.	Gauge.	Wght.	Price.
700.....	6	6	135 bu.	20	415	\$49.50
701.....	6	8	180 "	20	500	55.15
702.....	8	8	321 "	20	710	85.50
704.....	10	8	502 "	20	970	114.00
705.....	10	10	628 "	20	1090	126.00
706.....	12	8	725 "	20	1170	148.50
707.....	12	10	904 "	20	1320	157.50
707 1/2.....	14	8	985 "	20	1470	170.50
708.....	14	10	1231 "	20	1600	189.00
709.....	14	10	1231 "	18	1920	225.00
710.....	16	10	1608 "	18	2300	288.00
711.....	16	10	1608 "	16	2700	348.00
712.....	17	10	1815 "	16	2900	375.00
713.....	18	10	2035 "	16	3100	412.50

HOG WALLOWS



INVINCIBLE PNEUMATIC WATER SUPPLY OUTFITS

The use of pressure tanks instead of elevated tanks for supplying water under pressure is becoming more and more universal each year. The pressure tank is nothing more than a heavy, carefully made air tight steel tank into which the water is pumped. When the tank is what is commonly called empty, it is really full of air. Into this tank which is full of air water is pumped and as the air cannot escape from the tank, it is gradually compressed until, when the tank is two-thirds full of water, you have a back pressure from the air equal to that you would get from a tank elevated 100 feet. If a high-grade tank like those furnished with our **Invincible Outfits** is used and the connections properly made you will have to pump new air into tank in very small quantities. The only reason for pumping air being to replace that which is absorbed by the water and drawn off. To replace this air, different devices are used. Sometimes simply an air cock in the suction pipe of the pump, or a Hydro-pneumatic Cylinder or a separate air compressor, which devices are listed here. The advantages of a pressure tank system are its absolute reliability, its simplicity and as these tanks are either placed in a cellar or buried in the ground, with the end extending into the cellar, the water is kept an even temperature, being neither very hot in Summer or freezing cold in Winter; this is a big advantage in watering stock. It does away with the necessity of having an elevated tank in house which is undesirable or an elevated tank on tower outside, which is frequently unsightly and very liable to freeze up in cold weather.

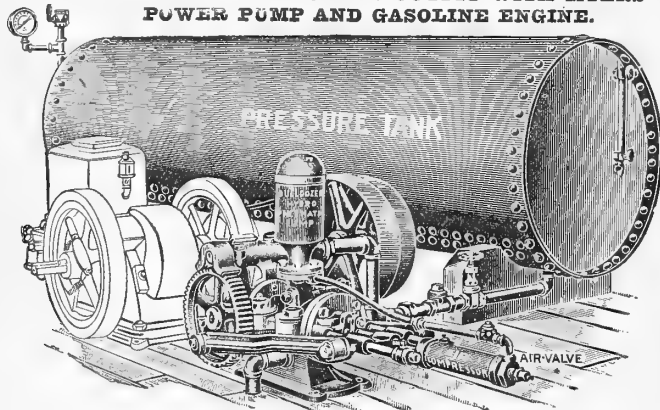
THE PROPER SIZE TANK TO SELECT.

The proper size of tank depends upon the total water consumption and the method of pumping. If the pump is operated by electric motor where reliable current is available, a small tank will give comparatively good service. In a case of this kind, we would suggest a tank with a total capacity of twice the usual daily consumption, although if an automatic switch is used a tank with a total capacity equal to the daily consumption will give good service. Where an engine is used for pumping, we would suggest a tank of a total capacity of not less than twice the number of gallons used daily. In fact, we consider it better to use a little larger tank than this. When you are pumping by hand, we would suggest twice as many gallons capacity as the daily consumption; and, if pumping by windmill, a tank with a total capacity of from four to six times as many gallons as are liable to be used daily.

INFORMATION BLANK.

We would be glad to mail on application to any one interested in the installation of an **Invincible Water Supply Outfit**, one of our special information blanks which will enable you to clearly give the information which will enable us to intelligently recommend suitable equipment.

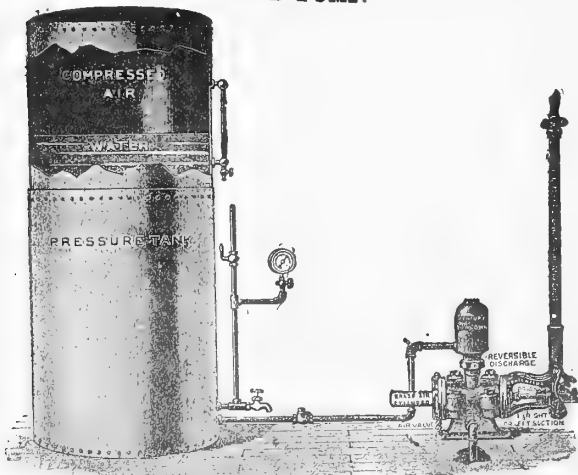
INVINCIBLE WATER SUPPLY OUTFIT WITH MYERS POWER PUMP AND GASOLINE ENGINE.



The above cut shows a popular outfit where water is to be pumped from shallow well, cistern or spring. Price of this outfit as shown, not including piping, consisting of 36"x10" tank, 1½ H. P. Field "Type W" Engine and No. 502 Bulldozer power pump with air attachment, \$190.00.

Prices on this outfit with larger tanks or on similar outfit with special head for deep-well work quoted on application.

INVINCIBLE OUTFIT WITH DOUBLE ACTING HAND PUMP.



The hand outfit shown here consists of an Invincible Pneumatic Tank with a Myers Double Acting Hydro-pneumatic Pump, which will pump both air and water. This type of pump is suitable for wells not deeper than 25 feet. Price of outfit with a 30"x6" tank which has a total capacity of 220 gallons and an R285A Myers 2½" double acting pump with the necessary valves and gauges. Price complete as described and illustrated with the exception of the piping and pipe fittings, \$57.50.

THE KIND OF PUMP TO SELECT AND PROPER POWER TO OPERATE IT.

While we show here two complete outfits which represent installations which are very frequently made, it is impossible to illustrate in the limited space available, combinations which suit the requirements of every one. The depth of well, the amount of water supplied by it, amount of water required per day, the kind of power most convenient to use and many other conditions make it necessary to give individual consideration to each case. In order that we may properly advise our customers as to what they should have, on the following pages will be found fully illustrated and described a line of pumps, pumping windmills, engines and electrically driven pumps which will meet all ordinary requirements.

VERTICAL AND HORIZONTAL TANKS.

Invincible tank 6 feet long and shorter are regularly furnished tapped to set vertical. Longer tanks are regularly tapped horizontal. Any tanks, however, can be furnished with either vertical or horizontal tapplings and this makes no difference in price of tanks. Wherever it is practicable to use a horizontal tank we consider it preferable.

LIST OF INVINCIBLE TANKS. (Plain Tanks Without Fittings.)

Diameter in Inches.	Length in Feet.	Weight.	Capacity in Gallons.	List Price.	Our Price.
24	5	425	120	\$55.00	\$27.50
24	6	445	145	58.00	29.00
24	7	510	170	63.00	31.50
24	8	560	195	68.00	34.00
24	10	675	245	74.00	37.00
30	5	495	180	64.00	32.00
30	6	560	220	70.00	35.00
30	7	625	255	75.00	37.50
30	8	700	295	88.00	44.00
30	10	870	365	102.00	51.00
30	12	900	440	115.00	57.50
36	5	675	265	85.00	42.50
36	6	750	315	92.00	46.00
36	7	825	365	102.00	51.00
36	8	900	420	112.00	56.00
36	10	1050	525	131.00	65.50
36	12	1200	630	141.00	70.50
36	14	1400	735	148.00	74.00
42	8	1450	575	135.00	67.50
42	10	1650	720	150.00	75.00
42	12	1900	865	196.00	98.00
42	14	2200	1000	219.00	109.50
42	16	2400	1150	236.00	118.00
48	12	2320	1130	250.00	125.00
48	14	2610	1300	274.00	137.00
48	16	2900	1500	304.00	152.00
48	18	3600	1700	351.00	175.50
48	20	3950	1880	393.00	197.50
48	24	4650	2260	437.00	218.50

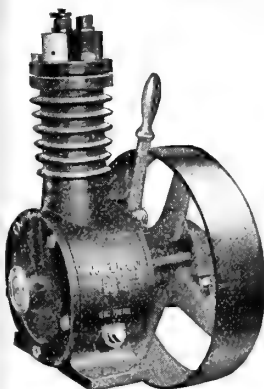
The above tanks are all tested to 125 pounds air pressure. The water storage of the tank is about two-thirds of its total capacity.

Manhead in any of the above tanks, \$10.00 extra net.

ACCESSORIES FOR INVINCIBLE PNEUMATIC TANK.

	List Price.	Our Price.
Water Gauge	\$2.50	\$1.50
Pressure Gauge	3.00	1.80
No. 18 Double-Cylinder Hand Air Pump.....	20.00	12.00
No. 1 C. F. Single-Cylinder Power Air Pump.....	50.00	37.50
Myers Fig. 1234 Hydro-Pneumatic Cylinder, 3-inch, for use with 2½-inch water cylinder.....	10.00	7.00
Myers Fig. 1234 Hydro-Pneumatic Cylinder 3½-inch, for use with 3-inch water cylinder.....	12.00	8.40

AIR COMPRESSORS FOR PNEUMATIC WATER SUPPLY OUTFITS AND GARAGE USE



No. 101 Belt Driven Compressor.

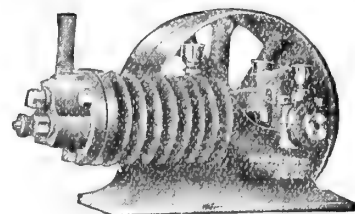
No. 100 BELT-DRIVEN AIR COMPRESSOR.

For garages housing up to 20 cars. For use with air tanks 20 gal. capacity or smaller. Built for 175 lbs. pressure, but tested at factory for 300. Has adjustable safety valve, requires 1/4 H. P., capacity 1 cu. ft. air per minute at 350 R. P. M. Height, 4 1/2 in., floor space, 8 in. by 11 in., weight, 23 pounds. Price, with 8-in. Tight and Loose Pulleys.....\$18.00

No. 101 BELT-DRIVEN COMPRESSOR.

For garages housing up to 25 cars, and for vulcanizing shop. For working pressure up to 175 pounds. For air tanks 25 gal. capacity or less. Has adjustable safety valve. Requires 1-3 H. P., delivers 1 1/4 cu. ft. free air per minute at 350 R. P. M. Height, 13 inches; floor space, 6 1/2 x 9 inches; weight, 28 pounds.

Price, with 8-inch Tight Pulley \$21.50
Price, with 9-inch Clutch Pulley (as illustrated)..... .30.00



No. 100 Belt-Driven Compressor.

No. 18 Hand Air Pump

No. 18 double-acting lever pump 50 inch high, has 3 1/2 x 5-inch brass cylinders, and is a very strong, easy-operating and desirable pump. Will give a good volume of air in very short time with little effort.

Price.....\$12.00.

Complete Air Outfits

We illustrated an ideal belt installation. Prices on larger outfits, and on complete portable outfits, will be quoted on application.



BELT-DRIVEN GARAGE OUTFIT NO. 2

For Garages Housing 15 to 20 Cars and Vulcanizing Shops.

1—No. 100 Belt-Driven Compressor, 8 in. T. & L. Pulleys.....	\$18.00
1—20 Gal. 14 in. x 30 in. Galvanized Air Tank.....	11.00
1—Model "B" Air Gauge.....	2.00
1—No. 75 Vertical Check Valve.....	1.25
1—No. 72 Safety Valve for Air Tank.....	2.00
1—No. 83-1/4-inch Needle Valve.....	1.25
1—No. 83-3/8-inch Needle Valve.....	1.25
1—No. 82-3/8-inch Needle Valve with Swivel Hose Connection.....	1.50
1—Automatic Tire Connection.....	1.00
1—25 ft. Drop Line 3-16-inch "Resistoil" Air Hose.....	4.00

\$43.25

BELT-DRIVEN GARAGE OUTFIT NO. 3.

For Garages Housing 20 to 25 Cars and Vulcanizing Shops.

1—No. 101 Belt-Driven Compressor, 9-in. Pulley and Clutch.....	\$30.00
1—26 Gal. 16-in. x 30-in. Galvanized Air Tank.....	13.50
1—Model "B" Air Gauge.....	2.00
1—No. 75 Vertical Check Valve.....	1.25
1—No. 72 Safety Valve for Air Tank.....	2.00
1—No. 83-1/4-inch Needle Valve.....	1.25
1—No. 83-3/8-inch Needle Valve.....	1.25
1—No. 82-3/8-inch Needle Valve with Swivel Hose Connection.....	1.50
1—Automatic Tire Connection.....	1.00
1—25 ft. Drop Line 3-16-inch "Resistoil" Air Hose.....	4.00

\$57.75

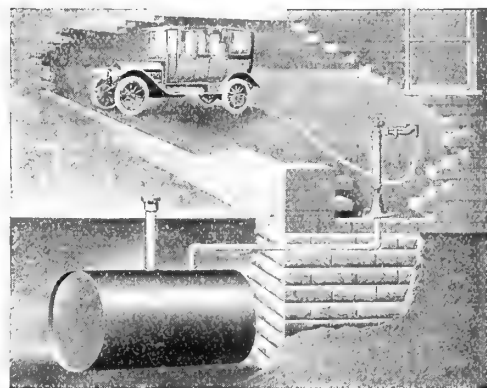
Write for Special Circular of Portable Garage Outfits.

GASOLINE STORAGE OUTFITS

A full description of the pump, welded tank and fill-pipe furnished with these outfits is given in a special circular, which will be furnished on application.

Capacity	Inside Dimens.	No. 10 U.S. Gauge List P'e Ship Wt.	No. 14 U.S. Gauge List P'e Ship Wt.	No. 12 U.S. Gauge List P'e Ship Wt.
60 gal.	24-in. dia. x 31-in.	\$38.00 135 lb.	\$41.50 145 lb.	
110 gal.	30-in. dia. x 36-in.	42.00 175 lb.	46.50 195 lb.	
165 gal.	30-in. dia. x 54-in.	50.00 220 lb.	54.50 255 lb.	
220 gal.	36-in. dia. x 50-in.	59.00 245 lb.	62.00 285 lb.	\$66.50 310 lb.
275 gal.	36-in. dia. x 63-in.	64.00 280 lb.	68.00 345 lb.	74.50 365 lb.

Above list prices are subject to discount, and include the pump, welded tank, fill-pipe and locking device as illustrated. The three-quarter-inch galvanized suction pipe and rubber hose are obtainable at any hardware or supply house.



FIELD TYPE "W" GASOLINE ENGINES

LOW IN PRICE

HIGH IN QUALITY

THE MOST WONDERFUL ENGINE VALUE ON THE MARKET
ON SKIDS OR ON TRUCKS MAGNETO OR BATTERY IGNITION

The Webster Oscillating MAGNETO

It is built in and it reduces ignition trouble to the minimum. It is the ultimate in Electrical Ignition.

Gears

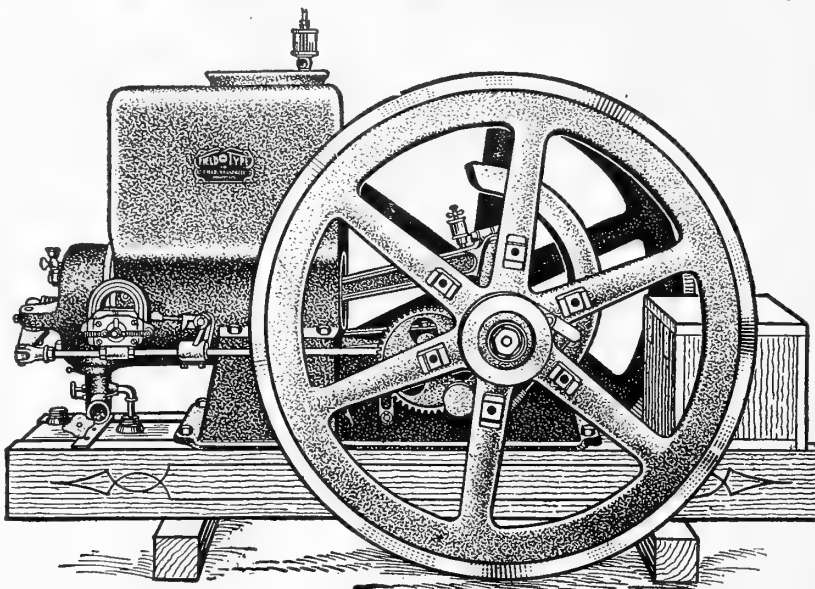
The gears are machine cut from solid block of best quality of grey iron, meshed with just the right clearance to insure long life and best wearing quality.

Mixer

It is the simplest constructed gasoline mixer ever used on an Internal Combustion Engine. There is but one adjustment, and not a moving part in its entire construction—the only adjustment regulating the fuel supply. The mixer is of the suction feed types approved by the National Board of Fire Underwriters.

Fly Wheels

Wheels are perfectly balanced—proper proportion to bore and stroke—rim polished.



THE BIG FIVE HORSE-POWER FIELD TYPE "W"

WE FURNISH TO THE PURCHASER OF EVERY FIELD ENGINE A FIVE-YEAR BOND GUARANTEE

Five Horse-Power Hopper Cooled Engine on skids, with built-in Webster Oscillating Magneto as illustrated, \$120.00 less a cash with order discount of 10 per cent., making net cash price \$108.00, F. O. B. Baltimore.

Same engine with battery equipment instead of Webster Magneto \$110.00, less 10 per cent. cash with order, making net cash price \$99.00, F. O. B. Baltimore.

Four Horse-Power Hopper Cooled Engine on skids, with built-in Webster Oscillating Magneto \$106.00, less cash with order discount, making net cash price \$95.40, F. O. B. Baltimore.

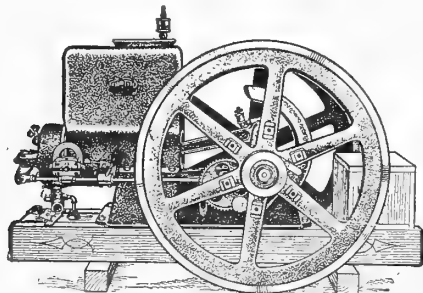
Same engine with battery equipment instead of Webster Magneto \$96.00, less 10 per cent. for cash with order, making net cash price \$86.40, F. O. B. Baltimore.

Two and Three-Quarter Horse-Power Hopper Cooled Engine on skids, with built-in Webster Oscillating Magneto \$72.50, less 10 per cent., making net cash price \$65.25, F. O. B. Baltimore.

Same engine with battery equipment instead of Webster Magneto \$62.50, less 10 per cent., making net cash price \$56.25, F. O. B. Baltimore.

One and a Half Horse-Power Hopper Cooled Engine on skids, with built-in Webster Oscillating Magneto \$55.00, less 10 per cent., making net cash price \$49.50, F. O. B. Baltimore.

Same engine with battery equipment instead of Webster Magneto \$45.00, less 10 per cent., making net cash price \$40.50.



Field Type "W" 1½ H. P.

FIELD TYPE "W"—PORTABLE ENGINES.

For Field Type W—1½ and 2¼ Horse-power Engines on four-wheel hand truck, add \$10.00 to price of engine on skids.

For Field Type W—4 or 5 Horse-power Engine on hand trucks, add \$12.50 to price of engine on skids.

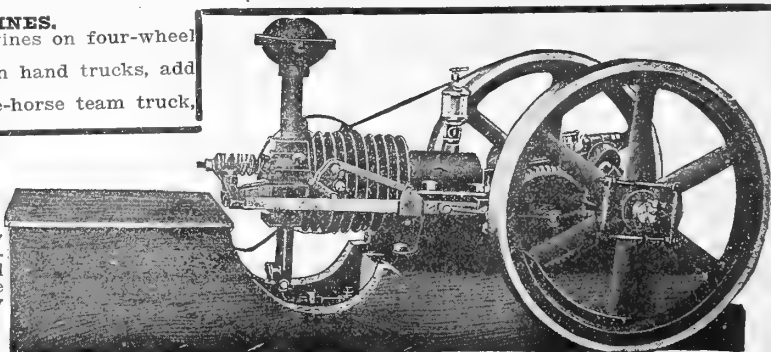
For Field Type W—5 Horse-power Engine on one-horse team truck, add \$32.50 to price of engine on skids.

BULLY BOY 1½ H. P. ENGINE

AIR COOLED

A well-designed, efficient, simple and thoroughly practical gasoline engine. Has make-and-break ignition, hit-and-miss governor, 3¼x5 cylinder. Offered to meet the demands of those having only a little work to do and who wish a reliable engine at a low price.

Price \$32.50



Cylinders Detachable

The Cylinders of all FIELD ENGINES are made of the finest quality of special Cylinder Iron and are cast separate from the base, making it possible to renew at any time without replacing entire frame.

Pick Blade

It is not necessary to remove and grind the Pick Blade on TYPE "W" Engines—IT IS ADJUSTABLE.

Crank Shaft

The crank shaft is extra large; of best grade high carbon drop forged nickel steel, turned and ground to perfect size.

Speed Changer

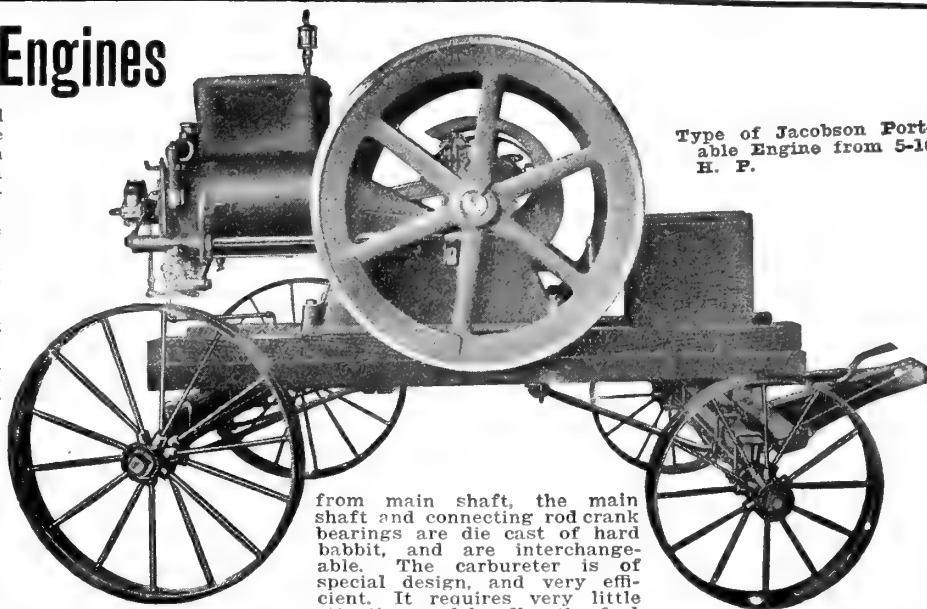
Patented Speed Changer arranged to speed can be changed while engine is in operation.

Connecting Rod

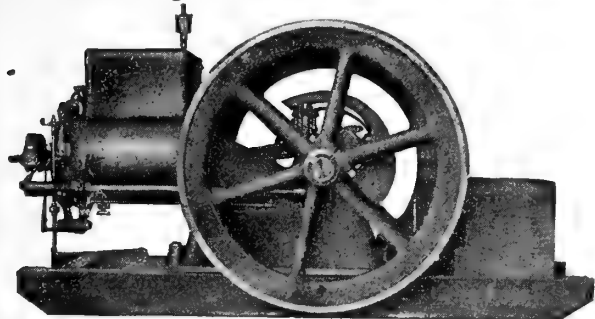
Well known I-beam section type drop forged, with all necessary adjustments for taking up natural wear.

Jacobson Gasoline Engines

JACOBSON ENGINES are designed for strength and durability, to use fuel economically, for freedom from complicated and trappy devices which are liable to give trouble, and for convenience, so that the operator will readily understand them, and will be able to give them proper attention. We furnish with the Jacobson Engines a very complete and clear set of instructions, so that almost anyone who gets a Jacobson Engine can start and operate it almost as well as an expert. The cylinder fly-wheels and piston are of the best material for the purpose, and very carefully manufactured. The design of piston is particularly good. The crank shaft is made of hot forged open-hearth steel. Connecting rod is of the strongest form known, and made of mild malleable iron, so that the possibility of breakage by crystallization is very remote. The bearings at both ends of connecting rod are removable and interchangeable. These bearings are of bronze and babbitt metal. Extra long piston valves are very large, and are vertical. The governor is driven



Type of Jacobson Portable Engine from 5-16 H. P.



Jacobson 3 1/2 H. P. Skidded Engine.

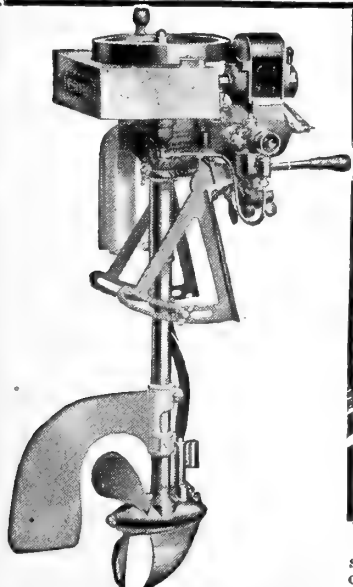
Clutch pulleys for Jacobson Engines, instead of regular pulleys, additional as follows:

3 1/2 H. P., List.....	\$27.00;	Our Price.....	\$16.00
5 H. P., List.....	29.00;	Our Price.....	17.00
7 H. P., List.....	30.00;	Our Price.....	18.00
9 H. P., List.....	38.00;	Our Price.....	22.00
12 H. P., List.....	40.00;	Our Price.....	24.00
16 H. P., List.....	42.00;	Our Price.....	25.00

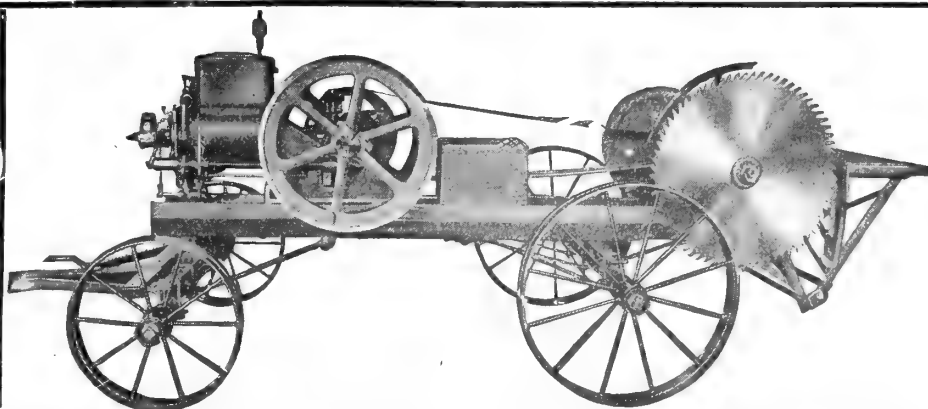
from main shaft, the main shaft and connecting rod crank bearings are die cast of hard babbitt, and are interchangeable. The carbureter is of special design, and very efficient. It requires very little attention, and handles the fuel with great economy. Speed-changing lever permits speed to be regulated without stopping engine. The lever is very conveniently placed. All Jacobson Engines are equipped with Webster Oscillating Built-in Magnetos, mounted on the sparker. The use of these magnetos dispenses with switches, spark coils, wiring and batteries.

Size	Bore of Cylinder	Fulley	Weight Skids	Weight Portable	ENGINE ON SKIDS		PORTABLE ENGINE	
					List	Our Price	List	Our Price
*3 1/2 H. P.	4 3/4	10x 6	600	800	\$175.00	\$105.00	*\$190.00	\$114.00
5 H. P.	5 1/4	12x 6	1000	1600	235.00	141.00	310.00	186.00
7 H. P.	6	16x 6	1 500	2000	285.00	171.00	365.00	219.00
9 H. P.	6 3/4	18x 8	1800	2650	360.00	216.00	450.00	270.00
12 H. P.	7 1/2	20x10	2400	3200	450.00	270.00	550.00	330.00
16 H. P.	8 1/4	22x10	3000	4000	550.00	330.00	660.00	396.00

*3 1/2 H. P. Is on Hand Truck. 10 per cent. discount for cash.



THE FERRO ROW BOAT MOTOR



JACOBSON PORTABLE WOOD-SAWING OUTFITS—COMPLETE AS ILLUSTRATED.

3 1/2 H. P., weight, 1600 lbs.; List, with 28-inch saw.....	\$320.00	Our Price.....	\$192.00
5 H. P., weight, 2000 lbs.; List, with 28-inch saw.....	380.00	Our Price.....	\$228.00

PRICES OF WOOD-SAWING OUTFITS WITH FIELD TYPE ENGINES, INSTEAD OF JACOBSON, QUOTED ON APPLICATION.

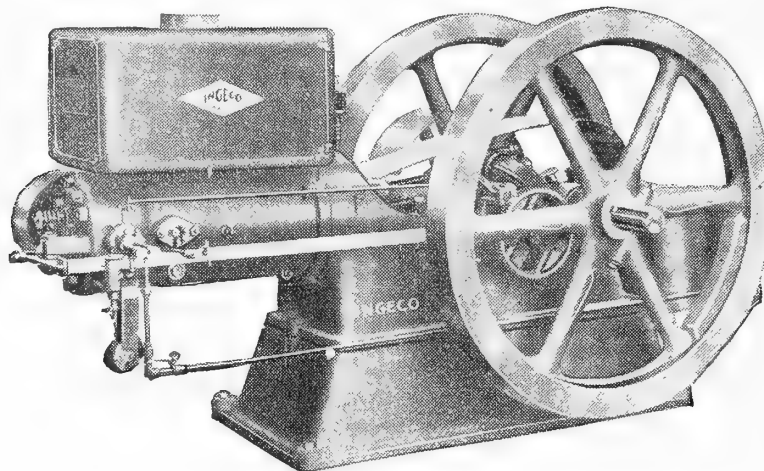
The FERRO can be used on any row boat, making an ideal power plant for the person who seeks health, profit, pleasure, or the sport of hunting or fishing. It may be carried anywhere, in the automobile, street car or train. For the camper its uses are manifold. All these advantages, in addition to low cost, both initial and upkeep, make the FERRO most desirable for any lover of the water.

Price, with waterproof battery ignition, \$65.00; with Bosch high-tension reversible waterproof magneto, \$85.00. Write for special catalogue.

INGECO KEROSENE ENGINES

HEAVILY CONSTRUCTED, HEAVY DUTY THROTTLING GOVERNOR TYPE.

Due to the continued increase in the cost of gasoline and without prospect of relief, power users have for some time been demanding an internal combustion engine to operate on cheaper fuels. A great deal has been accomplished in this direction in large units, but the farmers and other users of small engines received very little satisfaction until the manufacturers of the Ingeco Engines developed the thoroughly reliable line of kerosene engines which we list on this page.



INGECO STATIONARY ENGINE.

erly cool the engine—a thoroughly high-grade outfit adaptable to all conditions of service and changes of temperature.

"INGECO" HORIZONTAL FARM ENGINES.

Kerosene-Oil-Distillate "Throttling" Type.

STATIONARY ENGINES.

H. P.	Speed R. P. M.	Plain Pulley.	Diam. Fly- Wheel.	Size Friction Clutch Pulley.	Approx- imate Shipping Weight.
2½	400	8x4	24	12x3½	700
4	375	10x5	30	16x4½	1100
6	350	12x5	36	20x5½	1800
8	325	14x6	38	20x5½	2400
10	300	16x6	40	24x6	3000
12	275	18x7	44	28x7	3600
15	250	20x8	48½	28x7	4500

This line of engines will be furnished mounted on wood skids or cast iron sub-base at same price. In ordering always state preference.

These engines are started on gasoline in the usual manner and then switched over onto Kerosene or Distillate by means of a three-way-cock. The supply tank has two compartments, one small for starting, the other large for operating fuel.

"INGECO" Farm engines are self-contained and completely furnished, including Fuel Tank, Exhaust Muffler attached to engine, standard size Plain Pulley, Dry Cell Battery, Spark Coil Switch and Wire.

WRITE FOR PRICES AND SPECIAL CATALOG OF INGECO ENGINES

The manufacturers of "INGECO" engines realized just what the engine buying public required and what was necessary to give them satisfactory and lasting service and did not attempt to force upon them, by catchy advertising or otherwise, a subterfuge in the shape of an attachment for their regular "Hit and Miss" Gasoline engine, but set their engineers and experimental men designing and carefully testing out a real Kerosene engine of the "Throttling" governor type. They have exceeded their original expectations and we are now fully prepared to furnish our Farm type up to 15 H. P. in addition to our Standard type 6 to 60 H. P., to operate successfully and very economically on Kerosene, Distillates and other light oils of about the same consistency without any attachment or complicated parts.

PORTABLE FARM ENGINES.

Kerosene-Oil-Distillate "Throttling" Type.

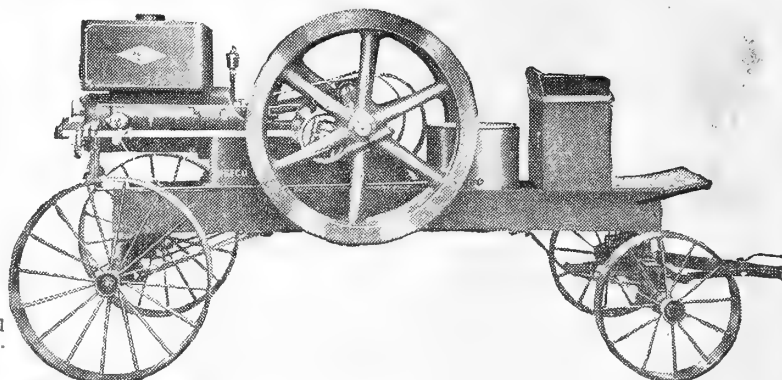
H. P. MOUNTING

		Speed R. P. M.	Size Friction Clutch Pulley.	Diam. Fly- Wheel.	Approx- imate Shipping Weight.
2½	Hand Portable Truck.	400	12x3½	24	750
4	Hand Portable Truck.	375	16x4½	30	1200
6	All Steel Team Truck	356	20x5½	36	2200
8	All Steel Team Truck	325	20x5½	38	2900
10	All Steel Team Truck	300	24x6	40	3500
12	All Steel Team Truck	275	28x7	44	4100
15	All Steel Team Truck	250	28x7	48½	5000

Same specification and equipment as the "INGECO" Stationary Farm Engines. 2½ and 4 H. P. are mounted on substantial wood frame hand trucks.

The "INGECO" portable Farm Engines are mounted on steel frame, team trucks strong and substantially made. The truck frame is of steel channel irons, steel axles and steel rim wheels, with cast iron hubs and staggered spokes. Truck is complete with seat and tool box but without neck yoke, whiffle trees or brake.

This line of portable engines will be furnished with either plain or friction clutch pulleys, as ordered. In mounting, the sub-base is removed, which brings the engine nearest the center of gravity. The cylinder hopper holds a sufficient quantity of water to prop-

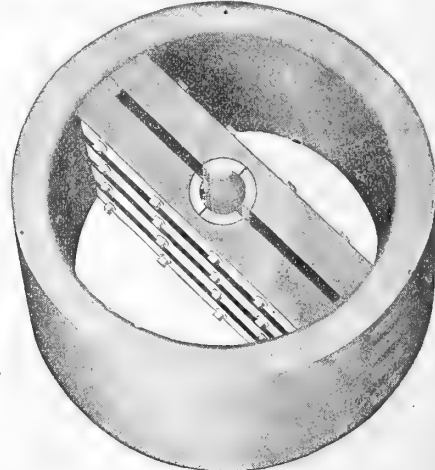


INGECO PORTABLE ENGINE.

LAWSON WOOD SPLIT PULLEYS

Practically everlasting; light weight; no glue; no nails; run outdoors or indoors in any climate. The ideal pulley for the farm.

4x4.....	\$1.45
4x6.....	1.65
5x4.....	1.50
5x6.....	1.70
6x4.....	1.50
6x6.....	1.75
8x4.....	1.55
8x6.....	1.85
10x4.....	1.70
10x6.....	2.05
10x8.....	2.40
12x4.....	2.00
12x6.....	2.45
12x8.....	2.90
14x4.....	2.30
14x6.....	2.85
14x8.....	3.40
16x4.....	2.60
16x6.....	3.25
16x8.....	3.90
18x4.....	2.90
18x6.....	3.65
18x8.....	4.40



A full line of other sizes. Prices on application.

DOMESTIC HORIZONTAL GEARED PUMPING ENGINES

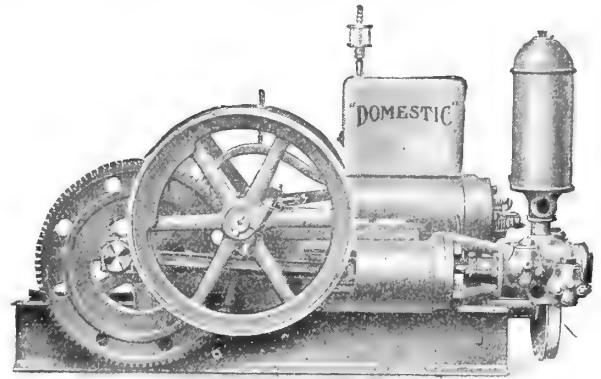
The reliability and high-grade construction of these outfits are well known. They are recommended as the most efficient and most convenient combined engines and horizontal pumps, and are intended for shallow wells—that is, where the suction lift is not more than 22 feet. Pump can readily be thrown out of gear so that engine can be used for any other work.

DOMESTIC JUNIOR 1½ H. P., D. C. PUMPING ENGINE.—Furnished either with 2½-inch pump with a capacity of 385 gallons per hour against 275 ft. elevation, or 636 gallons per hour against 160 ft. elevation. It can also be furnished with 3-inch pump, capacity 552 gallons per hour against 200 ft. elevation, or 918 gallons per hour against 120 ft. elevation. Shipping weight, 580 pounds. Price, \$95.00.

DOMESTIC 1½ H. P., D. C. PUMPER WITH TYPE A—ENGINE and with 3-inch double acting pump, capacity 552 gallons per hour against 230 ft. elevation, or 918 gallons per hour against 140 ft. elevation. Shipping weight, 785 pounds. Price, \$120.00.

DOMESTIC 2 H. P., D. C. PUMPER WITH TYPE A—ENGINE and with 4-inch double acting pump, capacity 978 gallons per hour against 175 ft. elevation, or 1500 gallons per hour against 115 ft. elevation. Shipping weight, 1030 pounds. Price, \$150.00.

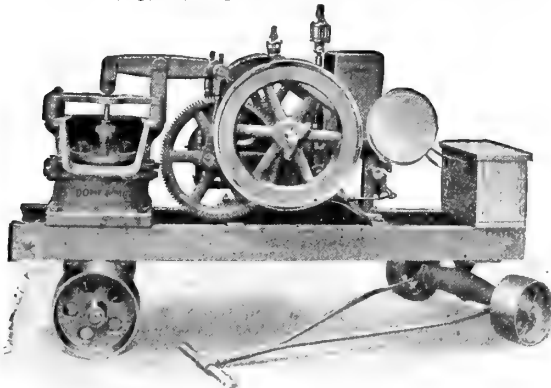
DOMESTIC 3 H. P., D. C. PUMPER WITH TYPE A—ENGINE and with 5-inch double acting pump, capacity 1530 gallons per hour against 175 ft. elevation, or 2250 gallons per hour against 90 ft. elevation. Shipping weight, 1150 pounds. Price, \$175.00.



DOMESTIC 5 H. P., D. C. PUMPER WITH TYPE F—ENGINE and with 5-inch double acting pump, capacity 1500 gallons per hour against 300 ft. elevation, or 2000 gallons per hour against 250 ft. elevation. Price, \$250.00.

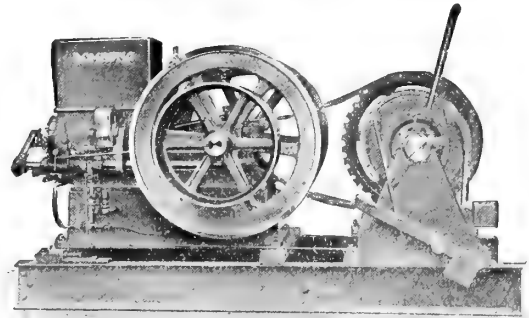
Where pressure is very high, smaller pumps can be put on above engines. Full information and prices quoted on request.

DOMESTIC DIAPHRAGM PUMPER.



DOMESTIC DIAPHRAGM PUMPERS.—Write for special bulletin on these outfits. They are very extensively used by contractors for wherever dirty or gritty water is to be pumped.

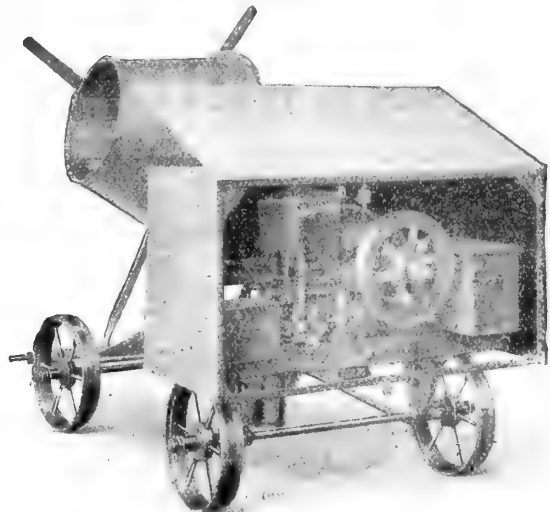
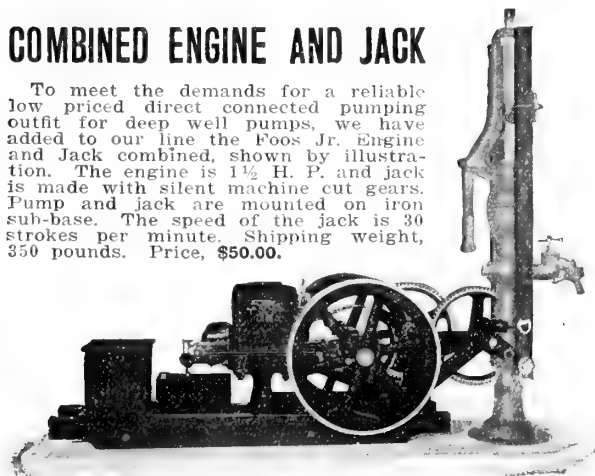
DOMESTIC GASOLINE HOISTS.



We are offering a complete line of chain driven and geared single and double drum hoists. Lack of space makes it impossible to describe them fully here, but we would be pleased to mail on request special bulletin showing the whole line with prices.

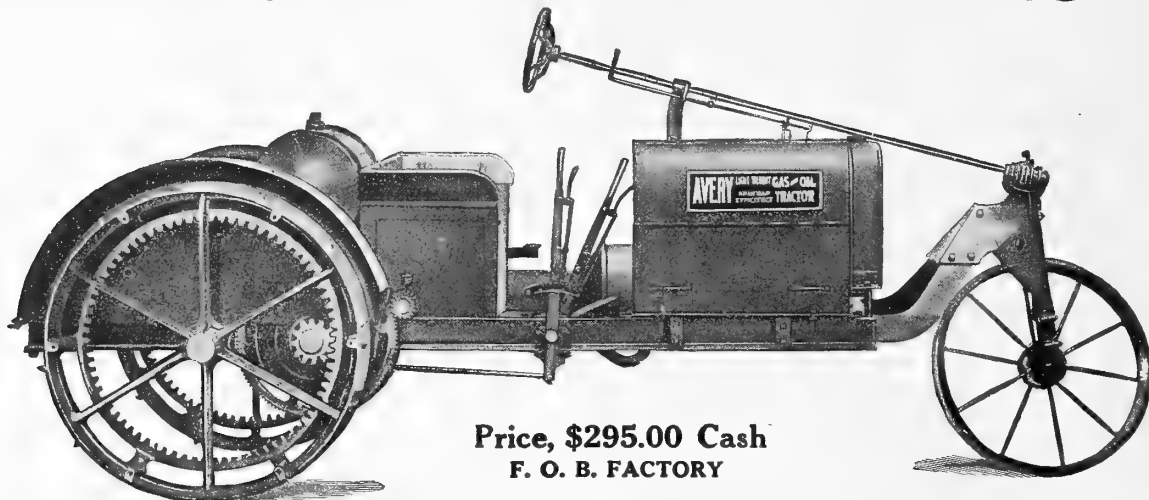
COMBINED ENGINE AND JACK

To meet the demands for a reliable low priced direct connected pumping outfit for deep well pumps, we have added to our line the Foos Jr. Engine and Jack combined, shown by illustration. The engine is 1½ H. P. and jack is made with silent machine cut gears. Pump and jack are mounted on iron sub-base. The speed of the jack is 30 strokes per minute. Shipping weight, 350 pounds. Price, \$50.00.



DOMESTIC CONCRETE MIXER.—Mounted complete with 1½ H. P. Domestic Jr. Engine, capacity 3 cubic feet per batch, 25 to 35 cubic yards per day. Send for circular describing this outfit and giving useful information in regard to mixing concrete. Price, complete with engine, \$175.00.

A NEW SMALL AVERY TRACTOR



Price, \$295.00 Cash
F. O. B. FACTORY

RATED 5 DRAWBAR, 10 BELT H. P. WEIGHT 1700 LBS.

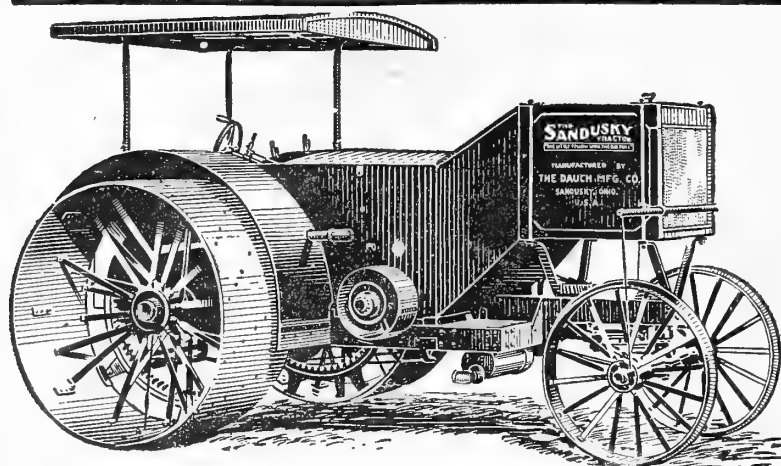
Under favorable conditions this new small Avery Tractor is guaranteed to produce a drawbar pull equal to that of four 1400 lb. draft horses.

It will pull—

Two 12-inch plows at a depth of 6 inches in ordinary stubble ground; a 6-ft. double disc harrow over plowed ground, and other implements ordinarily pulled by a 4 or 4-horse team.

It will drive—

A small silo filler; an ordinary sized feed grinder. Other machinery requiring not more than 10 H. P. belt power. Order now to insure early Spring delivery.



THE SANDUSKY TRACTOR

A powerful gasoline tractor for doing hauling and general farm work. The motor is four-cylinder vertical, 5-inch bore, 6½-inch stroke, and develops 35 H. P. at 750 R. P. M. Rated 15 tractive H. P. This tractor is of high-grade construction throughout and of excellent design. It is sold by the factory under a very liberal guarantee that enables the purchaser to test the tractor on his own farm before paying for it. Write for special catalog.

PRICE, \$1750; LESS \$100.00 FOR CASH.

FLASHLIGHTS



No. 112.

These Electric Flash Lights are very useful, and the line of lights and batteries we are offering are high-grade and reliable.

No. 112—Size 1½x6½; two-cell miners fibre; price complete with battery, post paid, **\$1.50**. Renewal battery, **20c**.

No. 113—Same as above, but 1½x8½, with three-cell battery; price, complete, post paid, **\$1.75**. Renewal battery, **25c**.

No. 102—1½x6½; like No. 112, but straight case instead of flared end; price complete, with battery, post paid, **\$1.00**. Renewal battery, **20c**.

No. 103—Like No. 102, but size 1½x8½, with three-cell battery; price complete, post paid, **\$1.25**. Renewal battery, **25c**.

ELECTRIC SPARK PLUG

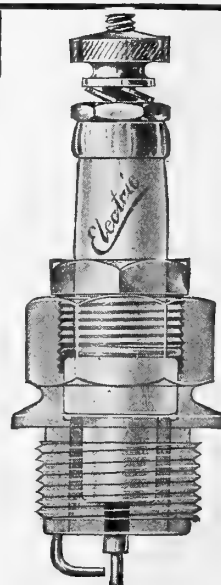
The Electric Porcelain Spark Plug meets with universal satisfaction in either pleasure cars or heavy trucks and tractors. Quality and workmanship are guaranteed. It is made in ½-in. Standard Pipe Thread, Standard Metric and ¾-18 A. L. A. M. Threads. Weight about 4½ ounces.

Price, **75c**.

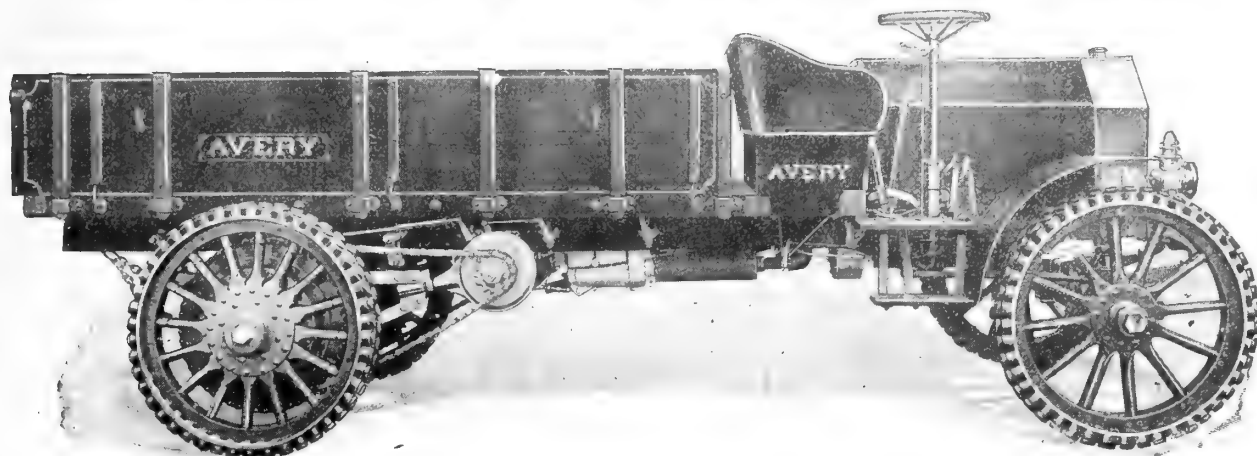
Surprise Cotton Waste

A carefully prepared waste specially suited to the requirements of threshermen, sawmill men and for general use around agricultural machinery. Put up in 5, 10 and 50-lb. packages.

Prices—5-lb. package, **90c**; 10-lb. package, **\$1.65**; 50-lb. bale, **\$7.50**.



AVERY THREE TON FARM AND COUNTRY TRUCK



AVERY THREE-TON FARM TRUCK as illustrated above is built especially for farm and country hauling. The name Avery on this truck is sufficient guarantee of its grade as the Avery Company has always been identified with the manufacture of very high-grade power machinery. The truck as illustrated is furnished with steel rims and heavy wood plugs, although the truck can be furnished with solid rubber tires at an additional cost. The body illustrated is the regular farm body made of hardwood, width 52 inches, length 123 inches, height 20 inches; other styles of bodies can be furnished. It has a four cylinder four cycle vertical motor, size 4 $\frac{1}{4}$ x5, horse power 36 1-10 A. L. A. M.; will develop 45 H. P. at 1500 R. P. M., wheel base 140 inches, tread 62 inches, speed from 2 to 12 miles per hour. If interested write for special catalog, giving full description. **Price of truck with body as illustrated \$2500.00, F. O. B. Factory; price of Chassis only \$2450.00, F. O. B. Factory.** Prices of other types of body and of truck with rubber tire wheels quoted on application.

COLUMBIA BATTERIES

Columbia Batteries have, for the last quarter century, been used for every service where long life, economy, and reliability are desired.

No. 6.

COLUMBIA IGNITOR.

Is the highest-grade battery on the market. It is unexcelled for any service. It is particularly satisfactory for ignition, or where the current drain is high.

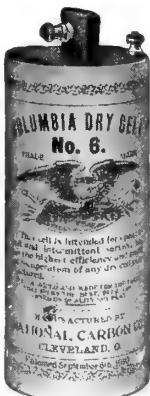
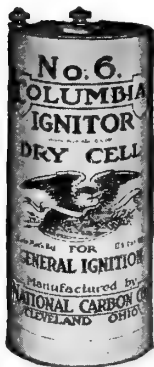
Price, 30 cts. each.

No. 6.

COLUMBIA.

A high-grade battery for every sort of service. It stands up well under heavy drains, and is particularly useful for intermittent service, or service where the current drain is not high.

Price, 30 cts. each.



COLUMBIA MULTIPLE BATTERY

Where the current drain is high, and a sturdy, reliable battery is needed, multiple batteries should be used.

Columbia Multiple Battery is made up of carefully selected cells, connected with sold-red copper strips, surrounded by a water-proof insulating compound, and encased in a japanned metal box. It is absolutely water-proof. Loose connections are impossible; and the price is so reasonable that it is more economical to use a multiple battery than it is to use separate sets of cells connected by loose wires.

Multiple batteries are made in various sizes and styles, with a working voltage from 2 to 9, or more if necessary.

Write for Prices.



TESTING INSTRUMENTS

COLUMBIA AMMETER

To determine the condition of batteries, or to test ignition circuits, a small reliable, low-priced meter is necessary.

The Columbia volt-ammeter shown in the cut is very accurate. Put out in a nickel-plated case, black figures on silver dial; it is a handsome instrument and one which should be in the possession of every one using dry cells. Price, \$2.50.

READRITE AMMETER.

A good low-price tester.

Price, \$1.25.



COLUMBIA HOT SHOT BATTERY

This battery is similar in internal construction to the Columbia Multiple Battery, but instead of metal case, the cells are enclosed in a handsome red, moisture proof carton. Where the waterproof feature is not necessary, and where the battery is not likely to be subjected to such rough service, Hot Shot proves quite satisfactory.



Columbia Batteries should be used for automobile, stationary engine and motor-boat ignition; for hand lanterns, telephones, bells—in fact, for any purpose where dry cells are used.

Write for Prices.

DOUBLE ACTING

BUCKEYE FORCE AND LIFT PUMPS

SINGLE ACTING

Fig. 43A.



Fig. 40A.

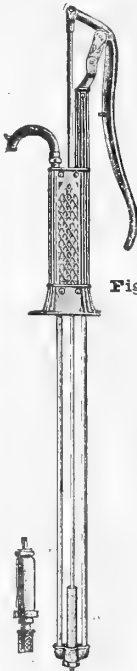


Fig. 36A.

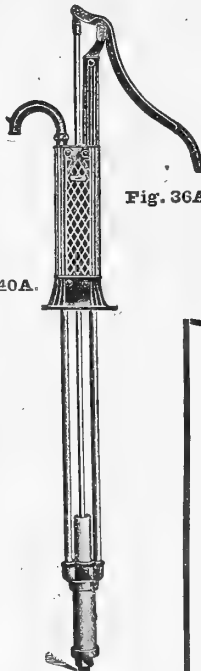


Fig. 67A.



IMPROVED BUCKEYE LIFT PUMP.

The Improved Buckeye is the most beautiful in design, most elaborately finished, best constructed and most desirable Lift Pump in every particular ever offered to the trade.

Fig. 67A. — Stand only as illustrated. List, \$5.75; Our Price, \$4.50.

Fig. 67A. No. 321. — Five-foot set length, with 3-inch brass-lined cylinder. List, \$9.75; Our Price, \$7.50.

Fig. 67A. No. 323. — Five-foot set length, with 3 1/2-inch brass-lined cylinder. List, \$10.75; Our Price, \$8.25.

Fig. 67A. No. 325. — Five-foot set length, with 4-inch brass-lined cylinder. List, \$12.50; Our Price, \$9.50.

No. 392.



No. 932.



Fig. 43A. No. 836. Deep Well Force Pump, with Windmill Head, for wells from 30 to 70 feet deep; with 3-way cock, 2 1/2-inch brass-lined Cylinder, 6 to 9-inch stroke, with one-inch air chamber and discharge pipe. List, \$19.50; Our Price, \$13.75.

Fig. 43A. No. 837. — Similar to the No. 836, but with 3-inch brass-lined cylinder. List, \$19.50; Our Price, \$13.75.

Fig. 43A. No. 838. — Similar to the No. 836, with 3 1/2-inch brass-lined cylinder. List, \$21.50; Our Price, \$15.25.

Fig. 40A. No. 215. — Deep Well Force Pump for wells 30 to 70 feet deep; 3-inch brass-lined lower cylinder, 6-inch stroke. Fitted for 1 1/4-inch pipe. List, \$15.00; Our Price, \$10.50. No. 215, with three-way. List, \$17.00. Our Price, \$12.00.

Fig. 40A. No. 218. — Deep Well Force Pump. This pump is the same as the No. 215, with the exception that it is equipped with 2 1/2-inch brass-lined cylinder instead of 3-inch. List, \$15.00; Our Price, \$10.50. No. 218, with three-way. List, \$17.00; Our Price, \$12.00.

Fig. 36A. No. 200. — Four-foot Set Length Force Pump for wells under 25 feet deep, 3-inch porcelain-lined cylinder fitted for 1 1/4-inch pipe. List, \$13.00; Our Price, \$9.25.

Fig. 36A. No. 201. — Five and one-half feet Set Length for wells under 25 feet deep, 3-inch brass-lined cylinder, fitted for 1 1/4-inch pipe. List, \$14.00; Our Price, \$10.00. No. 201 Pump with three-way. List, \$16.00; Our Price, \$11.50.

No. 902. — A ratchet head single-acting lift pump, similar in style to the No. 932. For wells 40 feet deep or less; 4-foot set length, with 3-inch brass-lined cylinder. List, \$8.00; Our Price, \$6.00.

No. 932. — A simple, substantial ratchet head single-acting force pump intended for use in wells of 40 feet deep or less. The ratchet head produces a perfectly aligned stroke on the piston rod, and gives good leverage. Four-foot set length with 3x10 brass-lined cylinder. List, \$9.50; Our Price, \$7.00.

No. 987. — A popular double-acting deep-well force pump. Has the advantage of direct stroke and great leverage obtained from the ratchet head principle. Constructed with air chamber and discharge pipe close together, making it a good pump for drilled wells. Four-foot set length with 3-inch brass-lined cylinder. List, \$15.00; Our Price, \$10.50.

No. 988. — Similar to the No. 987, but with 3 1/2-inch brass-lined cylinder. List, \$17.00; Our Price, \$12.00.

By four-foot set length is meant the pump with cylinder extended four feet below base which rests on platform. By stand only is meant the upper part of pump, without cylinder, like illustrated by Fig. 67A, as illustrated above, and by Fig. 423 on opposite page.

ADDITIONAL FOR FITTING BUCKEYE OR GOULDS PUMPS

We give below a table of the additional charge for fitting, and the amount stated in table has to be added to the price of the pump selected. In fitting pumps we use galvanized pipe and galvanized pump rod, and a strainer foot valve. For wells 26 feet deep or less we leave the cylinder 5 feet below platform. For wells deeper than 26 feet we place the cylinder close to the bottom of the well.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE	With 1 1/4-in. Pipe for 2 1/2-in. and 3-in. Cylinder		With 1 1/2-in. Pipe for 3 1/2-in. Cylinder		With 2-in. Pipe for 4-in. Cylinder		WE USE AN EXTRA GOOD FOOT VALVE		With 1 1/4-in. Pipe for 2 1/2-in. and 3-in. Cylinder		With 1 1/2-in. Pipe for 3 1/2-in. Cylinder		With 2-in. Pipe for 4-in. Cylinder	
Depth of Well.	Pumps.		Pumps.		Pumps.		Depth of Well.		Pumps.		Pumps.		Pumps.	
10 feet.....	\$2.17		\$2.79		\$3.45		32 feet.....	\$6.58	8.25		10.38			
12 feet.....	2.43		3.11		3.95		34 feet.....	6.94	8.69		10.92			
14 feet.....	2.69		3.43		4.35		36 feet.....	7.30	9.13		11.66			
16 feet.....	2.95		3.75		4.75		38 feet.....	7.66	9.57		12.06			
18 feet.....	3.21		4.07		5.15		40 feet.....	8.27	10.36		12.79			
20 feet.....	3.47		4.39		5.55		42 feet.....	8.63	10.80		13.33			
22 feet.....	3.83		4.81		6.05		44 feet.....	9.24	11.49		14.37			
24 feet.....	4.09		5.13		6.45		46 feet.....	9.60	11.93		14.91			
26 feet.....	4.35		5.45		6.85		48 feet.....	9.96	12.37		15.45			
28 feet.....	5.71		7.07		8.80		50 feet.....	10.32	12.81		15.99			
30 feet.....	6.07		7.51		9.34		Each additional foot.....	.19	.23		.28			

Special Prices Quoted on Application for Fig. 1482 Pump Head Fitted Complete.

No. 987



GOULDS WELL FORCE PUMPS

Fig. 1482. WINDMILL FORCE PUMP WITH THREEWAY.

An ideal pump for artesian wells. Will take either 2½ or 3-in. suction pipe. Cylinder valves and plunger can be removed without taking pipe from well; substantial and convenient. Price of head, as illustrated, without cylinder, List, \$19.00; Our Price, \$12.75.

No. 445.—ARTESIAN WELL CYLINDER. Galvanized steel case with heavy brass lining; has a four-cup plunger and is fitted with heavy bronze ball tubular well valves; size 2½ 16 stroke top and bottom connections for 2½-in. pipe. List, \$10.80. Our Price, \$8.50. Size 3-inch 16 stroke top and bottom connections for 3-inch pipe. List, \$14.30. Our Price, \$11.50.

Prices of Fig. 1482 Threeway Pump fitted complete with No. 445 artesian well cylinder with wood plunger rod; rod having heavy forged couplings with screw connection. The plunger and valves can be drawn out for repairs without removing pipe from well. A high-class, reliable artesian well pump.

Depth of Well.	Size of Cylinder and Well Pipe.	
	2½-in.	3-in.
30 ft.	\$37.30	\$44.70
35 ft.	39.75	47.65
40 ft.	41.48	50.59
45 ft.	43.64	53.45
50 ft.	44.97	55.04
55 ft.	47.10	57.93
60 ft.	49.53	61.14
65 ft.	52.15	64.45
70 ft.	54.41	67.54
75 ft.	56.57	70.48
80 ft.	59.15	73.98
85 ft.	60.84	76.32
90 ft.	63.01	79.24
95 ft.	65.70	82.73
100 ft.	67.87	85.66

Easily fixed. Plunger and Check Valve can be removed without taking pipe from well.

See the short roller here takes leverage—long stroke off all friction.

Clamps around in any position of air chamber

Adjustable brace hose connection

ETTER EASY RUNNING PUMP

The original rack and pinion pump. Mr. Etter was the first to see the advantage of this construction. The features of construction are clearly shown by the illustration.

No. 125.—Force Pump with 3x11 brass cylinder for wells 150 ft. deep. List, \$13.00; Our Price, \$9.10.

No. 127.—Force Pump with 3¼x11 brass cylinder for wells up to 100 ft. deep. List, \$14.00; Our Price, \$9.80.

No. 126.—Lift Pump with 3x11 brass cylinder for wells up to 150 ft. deep. List, \$11.00; Our Price, \$7.70.

No. 134.—Stock Lift Pump with 4x14 brass cylinder for wells up to 50 ft. deep. List, \$15.00; Our Price, \$10.50.

ETTER 9-INCH STROKE DETACHABLE GEAR FORCE PUMPS, WITH WINDMILL ATTACHMENT AND THREE-WAY.

No. 153 has 2¼x14 brass cylinder. List, \$20.00; Our Price, \$14.00.

No. 155 has 3x14 brass cylinder. List, \$20.00; Our Price, \$14.00.

No. 159 has 3¼x14 brass cylinder. List, \$20.50; Our Price, \$14.35.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Fig. 423. STAND.

This cut shows stand only. We can furnish this pump with cylinder extended 4 ft. below platform same as on Fig. 852½.

Fig. 1308.

Fig. 1276.

Fig. 852½. "STAR" FORCE PUMP.

Fig. 852½.—Has 3-in. cylinder, 6-in. stroke; recommended for wells 40 ft. deep and less. With iron cylinder—List, \$13.00; Our Price, \$6.75. With brass-lined cylinder—List, \$15.50; Our Price, \$8.00. Add for cock spout, List, \$2.50; Our Price, \$1.50.

Fig. 853.—Similar to Fig. 852½, but stand only without cylinder or pipe below platform. With plain spout—List, \$9.00; Our Price, \$5.75. Additional for cock spout.

Fig. 423.—Star Windmill Force Pump Stand, 6 or 10-in. adjustable stroke. Stand is provided with cock spout, tapped at the back for discharge or can place T under platform. Has a revolving tight top fitted with air chamber tube and brass packing gland. List, \$14.50; Our Price, \$7.00.

Fig. 426.—Same Pump Stand as Fig. 423, but fitted with four-foot set length and with 3x14 brass-lined cylinder. List, \$21.00; Our Price, \$10.50.

Fig. 426, with 3¼x14 B. L. Cyl. List, \$23.00; Our Price, \$11.50.

Fig. 1308.—Lift and Force Pump. Will go in 4-in. cased well. One-inch discharge pipe can be fitted back of spout or T can be placed under platform. No. 2—2½x14-in. brass cylinder, 10-in. stroke, for 60 to 85 ft. wells. List, \$17.00; Our Price, \$10.00.

Fig. 1309.—Like Fig. 1308, but with cock spout. List, \$19.50; Our Price, \$11.50.

Fig. 1276.—WINDMILL HEAD DOUBLE-ACTING THREE-WAY FORCE PUMP. A splendid pump, 6-in. hand stroke, 10-in. windmill stroke. Has 3x14 brass-lined lower cylinder. List, \$19.50; Our Price, \$13.25.

Extra charge for fitting the above pumps for wells of different depths will be found in table on page 200.

PUMP CYLINDERS

Size.	Iron.		Brass Lined.		Brass.	
	List.	Our Price.	List.	Our Price.	List.	Our Price.
2¼x13			\$8.50	\$3.40	\$9.75	\$4.25
2¼x14			9.25	3.70	10.50	4.50
3x10½	\$5.00	\$2.00	9.00	3.60		
3x13			9.50	3.80	10.75	4.75
3x14			10.25	4.10	11.75	5.00
3x16			11.25	4.50	12.75	5.50
3¼x10½	7.00	2.50	10.50	4.20		
3¼x14			12.25	4.90	14.75	6.25
3¼x16			13.50	5.40	16.00	6.75
4x10½	9.00	3.75	13.00	5.20		
4x14			15.75	6.30	19.00	8.00

2½ and 3-in. cylinders take 1¼-in. pipe; 3¼-in. cylinders take 1½-in. pipe; 4-in. cylinders take 2-in. pipe.

MYERS PUMPS

Fig. 398—Heavy Submerged Cylinder Deep Well Double-Acting Windmill Head Three-Way Force Pump.

An unusually heavy strong pump for deep wells. We recommend it as the best of the Myers Line of Windmill Head Pumps. Can be adjusted to 6, 8 or 10-inch stroke.

Prices of Fig. 398 Pumps.

No. 22 with 3-inch brass-lined lower cylinder. List Price, \$20.00. Our Price, \$13.35.

No. 23 with 3-inch brass lower cylinder. List Price, \$21.00. Our Price, \$14.00.

No. 24 with 3½-inch brass-lined lower cylinder. List Price, \$21.00. Our Price, \$14.00.

No. 26 with 4-inch brass-lined lower cylinder. List Price, \$23.00. Our Price, \$15.35.

Fig. 886—Myers Branch Pipe Single-Acting Windmill Head Three-Way Force Pump With Plunger Tube, 6, 8 or 10-in. Stroke.

This head embodies a construction that combines all the features required in a reliable windmill three-way cock pump in a neat design, strong and compact.

Fig. 886—No. 228 Pump with 1-inch brass plunger tube, either 2½ or 3x14-inch brass cylinder. List Price, \$19.00. Our Price, \$12.65.

R-172 MYERS HAND PUMP.

A very popular cog gear lift and force pump with 3-inch brass-lined cylinder. List Price, \$9.00. Our Price, \$6.00.

R-152—A lift pump of the same style as the R-172 Lift and Force Pump. List Price, \$8.00. Our Price, \$5.35.

The Myers Imperial Working Head

Fig. 1584.

This head is a splendid combined outfit for hand or belt power. It can also be used by windmill. It is made with machine cut gears, back geared 6 to 1 and has 6 and 9-inch strokes. Can be furnished for either 2½, 3 or 3½-inch suction pipe. In ordering state which is wanted.

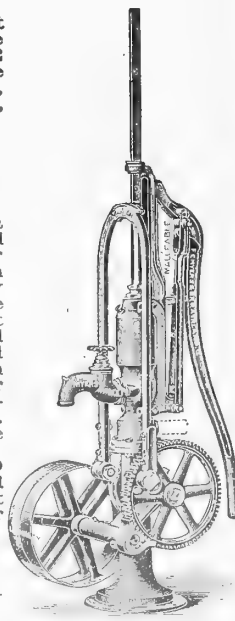
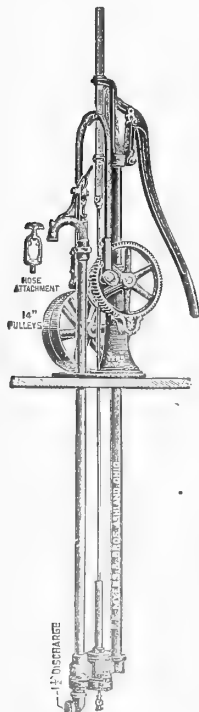
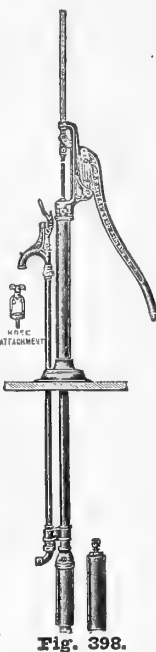
Fig. 1584—No. 389 Myers Imperial Working Head. List Price, \$30.00. Our Price, \$20.00.

The Myers Defiance Working Head

Fig. 1566.

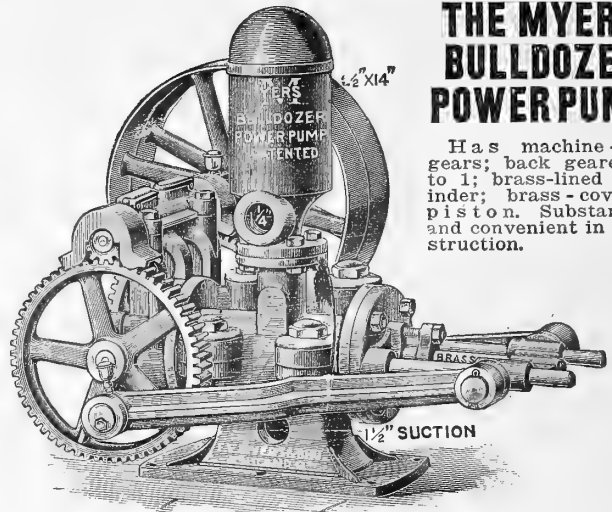
This well-known type still retains its popularity. Has machine cut gears and cock spout, back geared 6 to 1—has 6 and 9-inch strokes and back outlet is tapped for 1½-inch pipe. This can be plugged and underground Tee discharge used.

Fig. 1566—No. 388—Defiance Working Head. List Price, \$25.00. Our Price, \$16.65.



THE MYERS BULLDOZER POWER PUMP

Has machine-cut gears; back geared 5 to 1; brass-lined cylinder; brass-covered piston. Substantial and convenient in construction.



No. 502—Bulldozer Power Pump, 3x5-inch brass-lined cylinder; cut gear, 14x 2½-inch tight and loose pulleys. Suction 1½ inch; discharge 1½ inch; capacity 900 gallons per hour. List, \$65.00. Our Price, \$43.25.

No. 503—Bulldozer Power Pump, 4x5-inch brass-lined cylinder; cut gear, 16x3 tight and loose pulleys; 2-inch suction and discharge pipe; capacity 1300 gallons per hour. List, \$75.00. Our Price, \$50.00.

Prices of large sizes on application.

Myers Bulldozer Power Working Head

Machine Cut Gears. With Anti-Freezing Set Length.

Back Geared 5 to 1. Has 5, 7½ and 10-inch Stroke.

These extension pipes form an air chamber which cushions the stream sufficiently for operation under heavy pressure.

The cross section at the bottom has a flange below tapped for any size pipe up to 3 inches.

The plunger, up to 3 inches in diameter, can be withdrawn through the top without disarranging any of the other parts.

The discharge pipe is direct from air chamber. It is tapped for 1½-inch pipe. If larger discharge pipe is required use Tee in pipe below cross section.

State size of suction to be used. **Bulldozer Power Working Head, with Anti-Freezing Set Length, complete as shown by Fig. 1332. Price, each, List, \$75.00; Our Price, \$50.00.**

Myers All Brass Working Barrel or Artesian Well Cylinder

The Fig. 1404 Myers Artesian Well Cylinder is made with four cups and bronze-ball valves. This cylinder should be used with Myers Working Heads where it is desired to draw out plunger without taking pipe from well.

Inside Diameter	Stroke	Size of Suction Pipe	List Price	Our Price
2½ in.	14 in.	2½ in.	\$17.50	\$12.25
2¾ in.	14 in.	3 in.	25.00	17.50
3¼ in.	14 in.	3½ in.	35.50	24.85
3½ in.	14 in.	4 in.	51.00	35.70

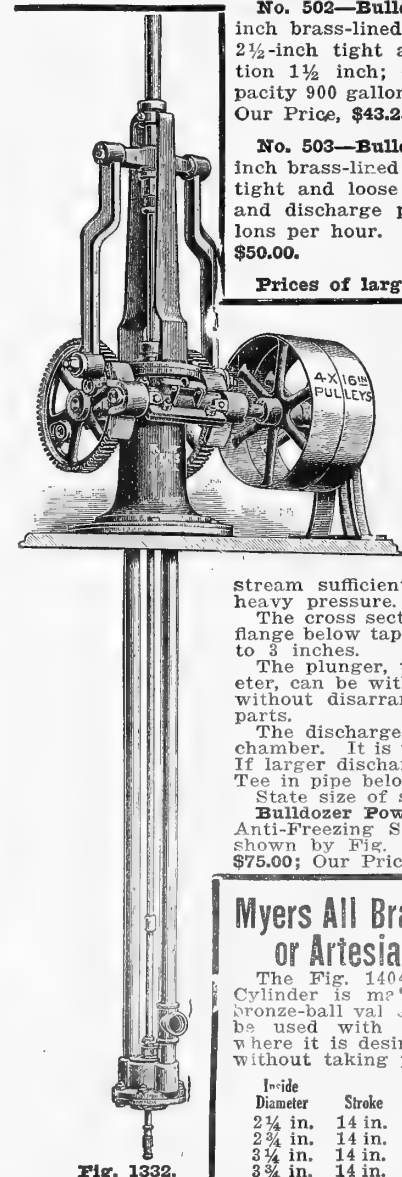
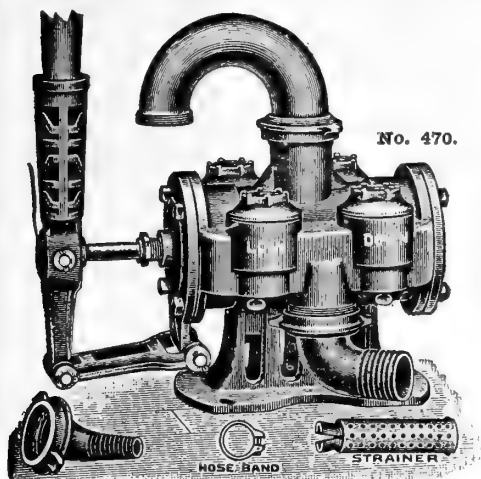


Fig. 1332.



CENTURY LOW-DOWN DOUBLE-ACTING FORCE TANK PUMP

No. 470

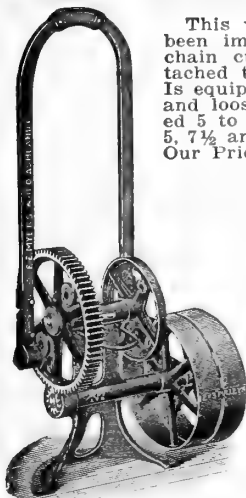
Capacity 2000 gallons per hour, 5-inch polished-iron cylinder, 5-inch stroke, fitted for hose and 2-inch pipe. Valves seats of brass; valves are metal, faced with rubber, and are very conveniently placed, so that they can readily be reached; piston rod is 13-16, drawn polished steel, with heavy brass stuffing nut. Price, with hose nipple, hose attachment, hose band and strainer, \$7.00.

No. 0 GRIFFITH & TURNER PUMP JACK

The No. 0 Double Geared Pump Jack is a good looking, strong, well-made machine, well painted, and is equipped with a crosshead that will permit a quick change from engine to hand or windmill power. Back geared, 4 to 1. Pulleys 13x2 inches. Strokes, 5, 7 and 10-inch. Weight 90 lbs. Price, \$6.00.

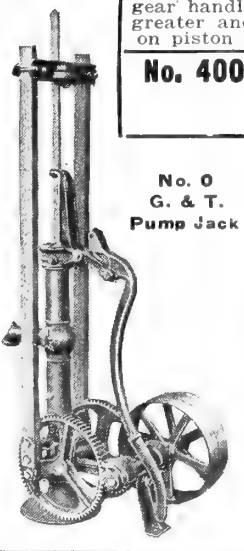
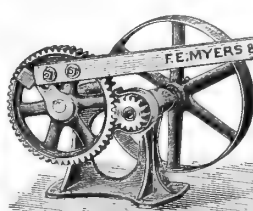
MYERS UNIVERSAL PUMP JACK

This very popular jack has been improved by the use of chain cut gears. Can be attached to any windmill pump. Is equipped with 12-inch tight and loose pulleys. Back geared 5 to 1, and can be adjusted 5, 7½ and 12-inch. List \$12.00; Our Price, \$8.50.



Universal Pump Jack

No. 400 Pump Jack



No. 0
G. & T.
Pump Jack

LOW-DOWN DOUBLE-ACTING HOUSE FORCE PUMP

Very popular for pumping from cisterns or shallow wells into house tanks. They are furnished with either 2½ or 3-inch brass-lined cylinder, with 5-inch stroke. Three-inch cylinder pump at 40 complete strokes per minute has a capacity of about 12 gallons per minute, and 2-inch cylinder pump has a capacity of a little over 8 gallons per minute. These pumps have rubber-faced metal valves, brass valve seats and brass-covered piston rod.

Fig. 1372. No. 286.—3-inch cylinder. List, \$14.00; Our Price, \$10.00
Fig. 1372. No. 285.—2½-inch cylinder. List, \$14.00; Our Price, \$10.00
Fig. 1371. No. R286.—3-inch cylinder. List, \$15.00; Our Price, \$10.75
Fig. 1371. No. R285.—3-inch cylinder. List, \$15.00; Our Price, \$10.75

FOR USE WITH PNEUMATIC TANKS.

Fig. 1669, shown below, illustrates the auxiliary air cylinder used on either Fig. 1371 or Fig. 1372 Force Pump for pumping air with water into our Invincible Pneumatic Tanks. If any of these pumps are wanted, equipped with this air cylinder, add \$3.00 to list, and to our price, \$2.00.

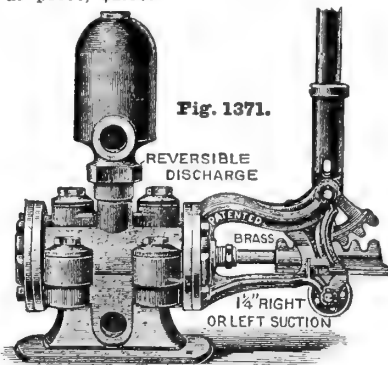


Fig. 1371.

REVERSIBLE
DISCHARGE

1½" RIGHT
OR LEFT
SUCTION

Fig. 1371, Pump.—On account of ratchet or cog gear handle, the leverage is greater and a direct stroke on piston is obtained.



Fig. 1372.

REVERSIBLE
DISCHARGE

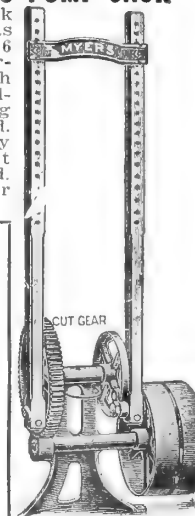
1½" RIGHT
OR LEFT
SUCTION

No. 400 Triumph Junior Pump Jack or Countershaft

Made with machine-cut gear; back geared 5 to 1; 4 and 6-inch stroke; especially designed for use in connection with a horizontal hand pump. The cut shows the manner of attaching jack to pump. Can be used also as a countershaft. Furnished with or without rod connection. Triumph Junior Jack complete with wood rod as illustrated. List, \$11.00; Our Price, \$7.75. Without wood rod and pump clamp. List, \$10.00; Our Price, \$7.00.

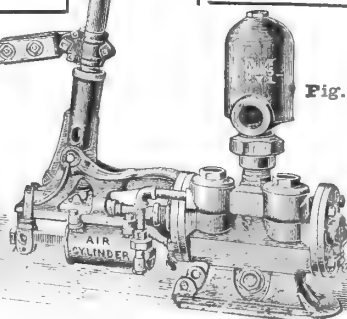
No. 366 MYERS PUMP JACK

This Jack is back geared 6 to 1. Has machine-cut gears; 6 and 9-inch stroke; furnished with 12-inch tight and loose pulleys. The connecting rods are hard wood. Crosshead can easily be adjusted to suit height of pump stand. List, \$10.00; Our Price, \$7.00.



No. 366 Pump Jack

Fig. 1669.



These Pump Jacks can be equipped with larger pulleys to suit high-speed engines and motors.

GOULDS PYRAMID POWER PUMP

A pump of high efficiency for use where water is not more than 22 feet below pump. The gearing is machine cut of hard cast iron; the crankshaft is of high carbon open-hearth steel; the bearings are lined with best-grade babbitt metal; cylinder is best quality hydraulic iron fitted with brass lining; the valves are rubber-disk type on bronze seats, convenient to get to.

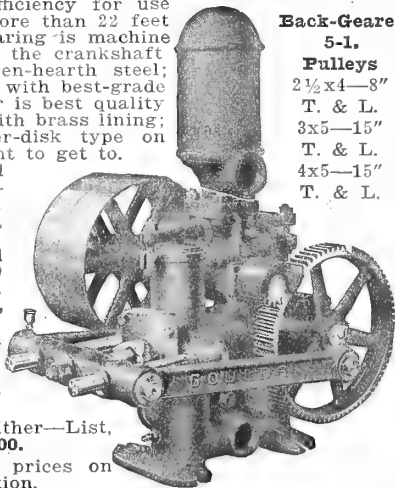
Size 2½x4, suction and discharge 1½ in., capacity 408 gal. per hour. List, \$40.00. Our Price, \$32.00.

Size 3x5, suction and discharge 1½ in., 280 lbs., 720 gal. per hour. List, \$55.00. Our Price, \$45.00.

Size 4x5, suction and discharge 2 in., 325 lbs., 1260 gal. per hour. List, \$65.00. Our Price, \$52.50.

Air Attachment for either—List, \$15.00. Our Price, \$12.00.

Special circular and prices on larger sizes on application.



Back-Geared

5-1.

Pulleys

2½x4—8"

T. & L.

3x5—15"

T. & L.

4x5—15"

T. & L.

BUCKEYE POWER WORKING HEADS

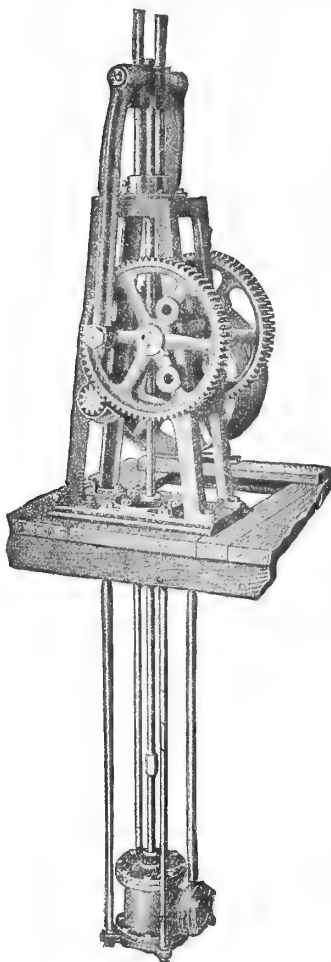
The Buckeye Power Working Heads are built in three sizes, and are carefully designed to meet the requirements of deep well pumping.

In addition to lifting the water from the well, they are capable of forcing the water to an elevated tank or reservoir at any ordinary height above the pump.

Especially attention is called to the arrangement of the gear and pinion on these pumps, which secures an almost vertical lift on the driving rods when the pump plunger is on the up stroke, bringing the wrist pins almost directly underneath the cross-head when the pump is required to perform its heaviest work.

The cross-heads and guides are unusually well constructed, and prevent entirely the wear of the piston rod in the packing box of the pump.

The frames of these pumps are of the angle-corner type, tapering in the line of the belt pull from the base, and by disconnecting the piston rod just above the packing nut, and removing the four cap screws which attach the frame to the base, the body of the pump can be hinged out of the way when removing the plunger rod and valves from the well.



No.	Cylinder and Elevation	Size Stroke	Size Pulleys	With air chamber and differential plunger	
				List Price	Our Price
1139	3-in.—150 feet.	5, 7½, 10	20x4 in.	\$ 80.00	\$ 56.00
1141	5-in.—150 feet.	8, 10, 12	20x4 in.	104.00	72.80
1143	8-in.—100 feet.	12, 16, 20	30x6 in.	196.00	137.20

If air chamber is not wanted, deduct from List, \$5.00; from Our Price, \$3.50.

Prices on these heads, with iron sub-base and with pinion and gear for motor quoted on application.

ELECTRIC DEEP-WELL PUMPING HEAD

(FIG. 47E)

This is a moderate-priced deep-well electric working head for moderate requirements. Its construction combines the best of materials and excellent design and workmanship; has accurate machine-cut gears, and very long shaft bearings; all gears have shields or covers.

A 2-in. single-acting cylinder against a total lift and force of 180 feet.

A 2½-in. single-acting cylinder against a total lift and force of 125 feet.

A 3-in. single-acting cylinder against a total lift and force of 90 feet.

The length of stroke is 6 in. It is tapped to take any size suction pipe up to 3 in.; weight, 500 pounds; size of motor, one-half H. P.; capacity from 240 gallons to 550 gallons per hour, depending upon the size of cylinder used.

Price, with 110 or 220-volt alternating-current motor—List, \$190.00; Our Price, \$135.00.

Add for air pump attachment to List, \$10.00; to Our Price, \$8.00.

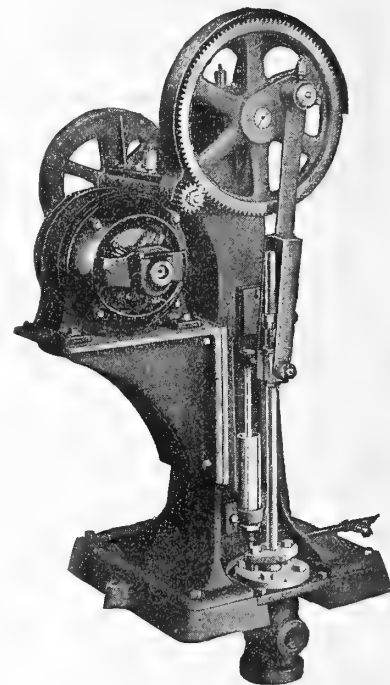
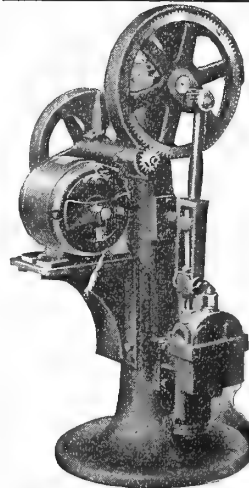


FIG. 45 E ELECTRIC HOUSE PUMP

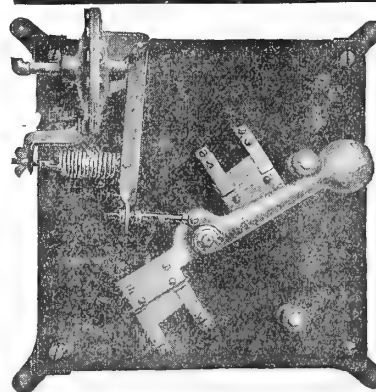
For pumping from shallow wells, cisterns, or springs. Will force water to a height of 100 feet or less against a pressure of 50 lbs.; therefore can be used in connection with either open attic tanks or basement pressure tanks. The machine is no plaything, nor a flimsy affair, but is high class in all particulars. The gearing is machine cut and of ample dimensions. The cylinder is of brass, with brass valves and piston rod. Gears are shielded, as shown in illustration. Capacity, per hour, 150 gallons. Price, with 110 or 220-volt A. C. Motor—List, \$104.00. Our Price, \$75.00.



AUTOMATIC PRESSURE TANK SWITCH

(FIG. 44)

For controlling pressure in pneumatic tanks. Will control a variation of about 15 pounds in water pressure; that is, it can be set to throw out at 50 pounds and start the motor again when the pressure has gone down to 35 pounds. Not designed for pressure of over 75 lbs. List price of switch as shown in cut, \$38.50; Our Price, \$30.00.



CLOSED TOP PITCHER SPOUT PUMP



Fig. 205 1/2.

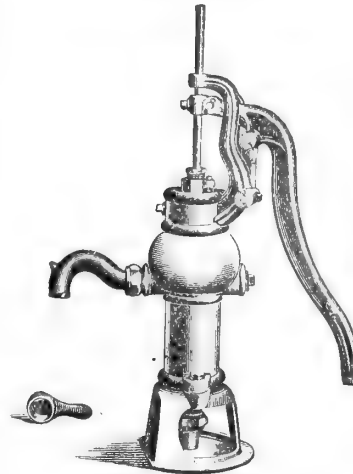
SIZES AND PRICES.

No. 1—Diameter of Cylinder, 2 1/2 in.; Suction, 1 in. Polished Iron Cylinder. List, \$4.25. Retail, \$1.00.
 No. 2—Diameter of Cylinder, 3 in.; Suction, 1 1/4 in. Polished Iron Cylinder. List, \$4.75. Retail, \$1.15.
 No. 3—Diameter of Cylinder, 3 1/2 in.; Suction, 1 1/4 in. Polished Iron Cylinder. List, \$5.25. Retail, \$1.30.

PITCHER PUMP LEATHERS.

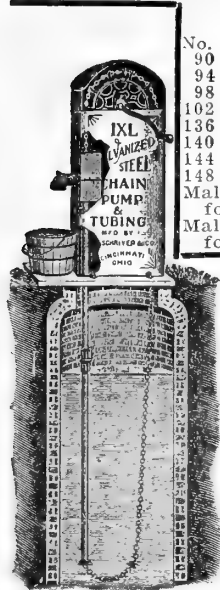
No. 1—Valve and flat Plunger Leathers, each, 10c.
 No. 2—Valve and flat Plunger Leathers, each, 12c.
 No. 3—Valve and flat Plunger Leathers, each, 15c.
 No. 1—2 1/2-inch Leather Cups, 12c.
 No. 2—3-inch Leather Cups, 16c.
 No. 3—3 1/2-inch Leather Cups, 20c.

BUCKEYE HOUSE FORCE PUMP



The illustration shows this pump with plain spout. We furnish it also with cock spout, so that the water can be shut off from the spout and pumped to elevated tank or bathroom. This pump has 3-in. brass-lined cylinder and brass valve seat. It has large air-chamber capacity, and is a very convenient and popular pump. You will note that the base of this pump is similar to the base of pitcher-spout pumps, which makes it very suitable to use in place of the pitcher spout pump if a force pump is wanted. No. 52 pump is for use where the water is not more than 20 feet below the pump. No. 52 Pump with plain spout—List, \$7.00; Retail, \$5.00. With cock spout—List, \$8.50; Retail, \$6.00.

BRASS JACKET DRIVE WELL POINTS



No.	Diameter of Pipe.	Length.	No. 60 Gauge, List Price, Per Doz.	Retail Price, Each.
90	1 1/4	24 in.	\$36.00	\$.90
94	1 1/4	30 in.	46.00	1.15
98	1 1/4	36 in.	56.00	1.40
102	1 1/4	48 in.	76.00	1.90
136	1 1/2	24 in.	48.00	1.20
140	1 1/2	30 in.	60.00	1.50
144	1 1/2	36 in.	72.00	1.80
148	1 1/2	48 in.	96.00	2.40
Malleable Drive Caps, Hexagon-shaped, for 1 1/4-inch Pipe.....20c.				
Malleable Drive Caps, Hexagon-shaped, for 1 1/2-inch Pipe.....25c.				

I X L GALVANIZED STEEL CHAIN PUMP

Being made of No. 24 gauge galvanized steel, this pump will not rot, rust nor accumulate filth like pumps of less desirable construction, and it makes the water clear and pure. It is anti-freezing, as the reservoir piece has a small hole, which allows the water to run out. This style of pump is practical for use in wells as deep as 40 feet. The term curb means the complete upper part of pump with fixtures.

PRICES.

I X L Curb.....	\$3.50
Gem Curb.....	2.75
Tubing, per foot.....	.08
Coupling.....	.20
Rubber Buckets.....	.08
Iron Platform.....	4.50
Iron Platform for Gem.....	1.00
Chain, per lb.....	.08

GEM GALVANIZED STEEL CHAIN PUMP

Has extension base, which also projects below platform and is easily fitted by cutting a square hole in the platform the length and the width of bottom of pump.

The fixtures are first-class and anti-freezing.

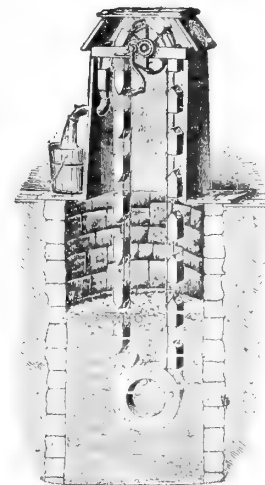
The pump is painted stone color, with two coats of the best paint, and is neatly stenciled and varnished.

Made entirely of galvanized steel in four pieces, locked together with its own metal.

There are neither rivets nor solder on it, making it very strong. Price, \$2.75.



No. 2 NATIONAL WATER ELEVATOR AND PURIFIER



Purifies by means of oxygen forced into water.

Price: Elevator, with 25-foot chain and japanned bottom wheel for 10-foot cistern, \$7.50.

Same, with 30-foot chain for 12-foot cistern, \$8.25.

Extra chain, 15c. per foot.

No. 30 STAR WATER ELEVATOR AND PURIFIER

Similar to the No. 2 Water Elevator, except that the buckets are slightly smaller, and there is a slight difference in the way the buckets are coupled together. On account of the smaller bucket, it is considered by some better for deep wells.

Price: Elevator and 25-foot chain and japanned bottom wheel for 10-foot cistern, \$6.50. Extra chain, per foot, 15c.

E. Z. BUCKET PUMP OR WATER ELEVATOR

The strongest bucket pump built. It is made of the best No. 24 galvanized steel, painted two coats best gray paint, and varnished. It has roller bearings, and they make the pump work easier, wear longer and run practically noiseless.

It has steel top and bottom bands. The buckets are made from the best galvanized steel, roll locked seams throughout.

Fixtures are put on the pump complete, avoiding all trouble in fitting.

Price:—Elevator, with 25-foot chain and galvanized bottom wheel for 10-foot cistern.....\$7.50

WOOD CHAIN PUMP

This Wood Curb Chain Pump is first-class in every respect; nicely painted and striped.

Prices:

Chain Pump Curbs, each.....	\$2.25
Chain Pump Tubing, per foot.....	.06
Chain (running 3 1/2 feet to pound), per lb.....	.08

DIRECTIONS FOR FITTING UP CHAIN PUMPS.

1. Use one foot more tubing than depth of well.
2. Multiply length of tubing by two and add 3 feet 6 inches to get proper length of chain.
3. Rubber buckets should be placed 6 or 7 feet apart.
4. See that tubing is held securely by tubing brace at bottom of curb.

BALTIMORE WOOD PUMPS

With and Without Porcelain Cylinder.
PRICES OF PUMPS FITTED COMPLETE.

Depth of Well.	6x6 Unlined.		6x6 Lined.		7x7 Lined.	
	List Price.	Retail Price.	List Price.	Retail Price.	List Price.	Retail Price.
10 feet....	\$7.50	\$5.25	\$9.00	\$6.30	\$10.75	\$7.60
12 feet....	7.90	5.60	9.40	6.65	11.15	7.80
14 feet....	8.30	6.00	9.80	7.00	11.55	8.25
16 feet....	9.10	6.50	10.60	7.50	12.35	9.00
18 feet....	9.70	7.00	11.00	8.00	12.95	9.25
20 feet....	10.50	7.50	11.75	8.25	13.50	9.50
23 feet....			12.75	9.00	14.90	10.50
25 feet....			13.50	9.50	16.05	11.25
28 feet....			15.00	10.50	18.35	13.00
30 feet....			16.30	11.50	20.45	14.50
33 feet....			19.50	13.75	22.50	16.00
35 feet....			21.50	15.25	23.50	16.50
40 feet....			24.50	17.25	26.50	18.75
45 feet....			28.10	20.00	30.10	22.00
50 feet....			31.10	22.00	33.10	24.00

BALTIMORE WOOD PUMPS
NOT FITTED.

"No. 0."—STOCK PUMPS. 7x7 Inches, 4-inch Bore.

	List Price, Porc. Lined.	Retail Price.
6 feet long.....	\$8.75	\$6.13
7 feet long.....	9.75	6.83
8 feet long.....	10.75	7.53
10 feet long.....	12.75	8.93
12 feet long.....	14.75	10.33
6 feet long, reamed for 6x6 extension pipe, unlined.....	7.25	5.08

"No. 1."—THE FAVORITE HOUSE PUMPS.

6x6 in., 3½-in. Bore.

	List Price, Porc. Lined.	Retail Price.
6 feet long.....	\$7.00	\$4.90
7 feet long.....	7.60	5.32
8 feet long.....	8.20	5.74
10 feet long.....	9.40	6.58
12 feet long.....	10.60	7.42
6 feet long, reamed for 6x6 extension pipe, unlined.....	5.50	3.85

PUMPS FOR DRIVE WELLS

To Fit 1¼, 1½, or 2-inch Iron Pipe.

Special No. 1 House, 5 feet wood, Porcelain-lined Cylinder, entire length 6 feet.

List Price, \$7.50. Retail Price, \$5.25.

TUBING AND MISCELLANEOUS

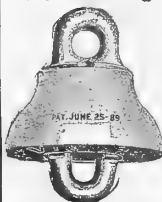
	List Price.	Retail Price.
4x4, 12 feet long and under, per foot.....	\$0.20	\$0.15
4x4, over 12 feet, per foot.....	.22	.17
6x6 Extension Tubing, per foot.....	.60	.45
Cylinder Block, Porcelain Lined, 3 ft. long.....	3.30	2.45
Cylinder Block, Porcelain Lined, 4 feet long.....	3.90	2.90
Cylinder Block, Porcelain Lined, 5 feet long.....	4.50	3.40
Cylinder Block, Porcelain Lined, 6 feet long.....	5.10	3.85
Cylinder Block, Porcelain Lined, 7 feet long.....	5.70	4.25
Cylinder Block, Porcelain Lined, 8 feet long.....	6.30	4.75
6x6 Couplings for 4x4 Tubing.....	.50	.50
Buckets, 5-in., each, No. 00, List, \$1.25, Retail Price, 95c.; 4-in., each, No. 0.....	1.00	.75
Buckets, 3½-in., No. 1, each, List, 80c., Retail Price, 60c.; 3-in., No. 2, each.....	.65	.50
Handle, any size, each, List, 30c., Retail Price, 30c.; Handle Links or Knuckles.....	.25	.25
Check Valves, per dozen.....	1.50	1.20
Iron Connection for Drive Wells, fitted for 1¼-inch and 1½-inch iron pipe.....	1.00	.75
Extra Iron Spout, with loose collar.....	.40	.30
Extra Wood Spouts, each, List, 15c., Retail Price, 15c.; Extra Spout Braces, each.....	.15	.15
Extra Bands, each.....	.10	.10
Extra Bars or Brackets, Nos. 35 and 36, each.....	.40	.20
1-in. Rod Couplings, pair.....	.40	.30
Plunger Rod, per foot.....	.03	.03

The Queen Rubber Bucket.



Price, 8c.

Victor Anti-Freezing.



Price, 10c.

Crosby Swivel Link Bucket.



Crosby Plain, 8c.

IXL RUBBER BUCKET



Price, 8c.

PUMP LEATHERS

Our pump leathers are cut from the best grade of selected Oak Tan leather. We offer only such leathers as we can recommend as being absolutely high grade.



Plunger Leather Crimped.



Plunger Leather not Crimped.



Suction Valve Leather.



Ring Packing for Cylinders.

Crimped Plunger or Cup Leathers

Pr.	Gr.	Each.	Pr.	Gr.	Each.
1 1/4 in....	\$3.50	\$.05	3 1/4 in....	\$18.50	\$.16
1 1/2 in....	4.50	.05	3 1/2 in....	24.50	.18
1 3/4 in....	6.00	.08	3 3/4 in....	29.00	.22
2 in....	8.00	.08	4 in....	31.50	.25
2 1/4 in....	9.00	.10	4 1/4 in....	37.50	.30
2 1/2 in....	10.00	.10	4 1/2 in....	40.00	.30
2 3/4 in....	13.00	.12	4 3/4 in....	43.00	.32
3 in....	14.50	.14	5 in....	49.00	.40
	16.50	.16			

Plunger and Lower Valve Leathers and Ring Packing

Outside Diam.	Cylinder Diam.	Per Gross.	Each.
2 in.	1 1/2 in.	\$5.00	\$.03
2 1/4 in.	1 3/4 in.	6.00	.08
2 1/2 in.	2 in.	6.50	.08
2 3/4 in.	2 1/4 in.	8.00	.10
3 in.	2 1/2 in.	8.50	.10
3 1/4 in.	2 3/4 in.	10.00	.12
3 1/2 in.	3 in.	10.50	.12
3 3/4 in.	3 1/4 in.	13.00	.14
4 in.	3 1/2 in.	15.50	.16
4 1/2 in.	3 3/4 in.	18.00	.18
5 in.	4 in.	19.50	.20

Cups for Buckeye Upper Plungers

1 3/4 in. goes with 2 1/4 in. lower cylinder....	10c.
2 3-16 in. goes with 3 in. lower cylinder....	12c.
2 9-16 in. goes with 3 1/2 in. lower cylinder, 15c.	
2 13-16 in. goes with 4 in. lower cylinder, 20c.	

Octagon Wood Pump Rods

Wood Pump Rod for artesian wells is made of selected material and fitted with forged couplings.

Size of Rod.	Size of Artesian Well Cylinder.	Price Per Ft.	Steel Substitute.
1 1/8"	1 3/8" to 2 1/4"	\$.08	\$.50
1 5/8"	2 1/4" to 3 1/4"	.11	.70
1 7/8"	2 3/4" to 3 3/4"	.13	1.50

The above prices are for rod in standard lengths of from 16 to 20 feet, forged couplings included.

Artesian Well Cylinders

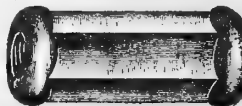
See Pages 201 and 202.

Galvanized Pump Rod and Couplings

¾-inch Round Galvanized Pump Rod in 20-foot lengths, not threaded, per foot, 3c.

7-16-inch, 3½c.; ½-inch, 5c. Threaded with coupling, add 1c. per foot; cut lengths, add 3c.

Galvanized Pump Rod Couplings for ¾, 7-16 or ½-in. rod, 5c. each. 30c. per lb.



THE FAMOUS "BOSS" WASHING MACHINE

Unlike all other Washing Machines, the "BOSS" does not merely soak the clothes, nor pound nor tumble them, nor churn the water around and among them.

When the top is down and the "BOSS" is operated, the two rub-boards oscillate in opposite directions twice to every revolution of the crank, or 180 times to every turn of the wheel—90 forward and backward strokes every minute. It is this quick double action, and the pressure to the upper rub-board that produces the action similar to the rubbing and squeezing process of washing by the hand method. The clothes, being placed between the two rub-boards, are rubbed and squeezed, rubbed and squeezed, many pieces at a time, nearly 200 times every minute, and it is this rubbing—squeezing—suction-creating action which forcibly drives the hot soapy water through every mesh and fibre and cleans the most soiled clothes so well that after-rubbing by hand is not necessary.

The lower rub-board can be removed to clean and ventilate the machine after use. The patented detachable connections can be unhooked in an instant—then the rub-board is lifted out and every particle of dirt which has settled in the dirt chamber—no other washer has this feature—is easily taken out with a cloth. There are no corners or crevices where dirt can accumulate and cause ill-smelling odors. The "BOSS" is always clean, sanitary and odorless, no matter how soiled the clothes that may be washed in it.

All wood parts are Louisiana Red Cypress—natural finish—the

best wood known for Washing Machine construction. Galvanized Castings and Hardware make the "BOSS" RUST-PROOF. The No. 5 size is fitted with a special wheel which will permit the machine to be operated by hand or engine power—making it an excellent power washer.

Made in three sizes—

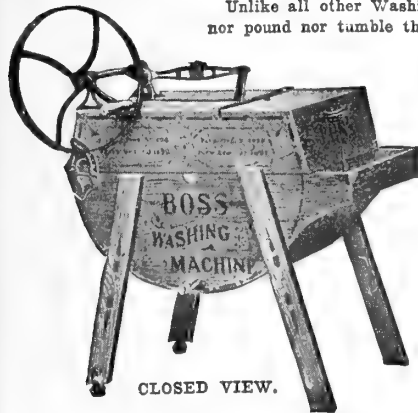
- No. 1 Small Family
- No. 2 Medium Family
- No. 5 Large Family or Hotel

Capacity 10 shirts
Capacity 12 shirts
Capacity 15 shirts

Shipping weight 100 lbs.
Shipping weight 105 lbs.
Shipping weight 110 lbs.

List Price \$11.60
List Price 13.20
List Price 15.00

Our Special Price \$8.00
Our Special Price 9.00
Our Special Price 10.00



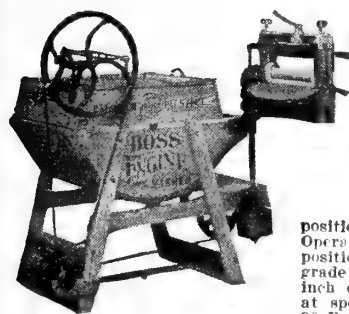
CLOSED VIEW.

SATISFACTION GUARANTEED.



Open view with cylinder lifted out to clean machine.

The rollers on legs make the "BOSS" easy to move.



BOSS ENGINE POWER WASHER WITH POWER WRINGER

THE WASHER—Is the famous "BOSS" described above, but built especially heavy for power drive. Legs extra heavy, bolted to tub and well braced. Louisiana Red Cypress wood, natural finish. Heavy gauge solid copper bottom, with metal drain faucet. Machine-fit castings, noiseless in operation. Galvanized castings and hardware.

THE WRINGER—Is operated by power and has a safety device which makes wringer accident-proof. Wringer can be swung out from washer in several positions to wring from other tubs while washer is running. Operates forward or reverse or remains neutral while in any position. Has reversible drain-board. Twelve-inch highest-grade rolls; enclosed cogs and ball bearings. **FULLEYS**—Six-inch diameter with 2-inch face. Should be connected to run at speed of 300 R. P. M., which will run the washer about 90 R. P. M. and wringer about 65 R. P. M.—the proper speed.

Capacity
12 shirts
15 shirts

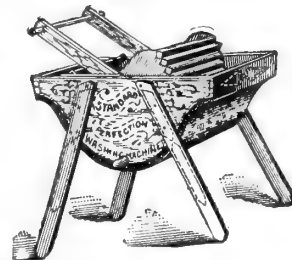
Shipping Weight
275 lbs.
300 lbs.

List Price
\$53.00
59 00

Our Special Price
\$35.00
40.00

- No. 42 Medium Family.....
- No. 43 Large Family.....

STANDARD PERFECTION



An excellent moderate - price washer, constructed on the rubbing-suction principle—with adjustable cylinder above—removable rub-board below. Made of cypress; natural finish. Galvanized castings and hardware.

ONE SIZE ONLY.

Capacity 6 shirts.
Shipping weight 45 lbs.

List Price, \$5.50
Our Special Price, 3.75

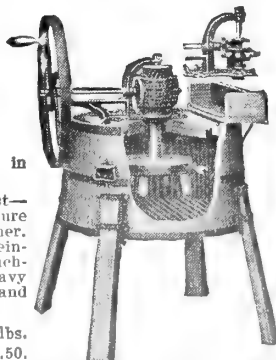
GRITCO-B ROTARY

A SUPERIOR ROTARY WASHER.

With simple roller-bearing gear, driven by large heavy flywheel, thus eliminating friction and wear—insuring smooth and easy running. Gearing imparts an alternate rotary motion to the dasher at high speed to produce proper agitation in the tub.

Covered gears. Telescopic dasher post—no projection below dasher to tangle or injure the clothes. Non-floating cypress dasher. Large cypress tub. Natural finish, with reinforced top—corrugations on inside—detachable lid—bolted wringer attachment—heavy detachable legs. Galvanized hardware and castings.

Capacity 8 shirts. Shipping weight 85 lbs.
List Price, \$10.50. Our Special Price \$7.50.



CINCY HIGH SPEED WASHER for Hand or Power

Is operated by lever with high-speed flywheel geared to make 300 revolutions per minute—this terrific momentum creating sufficient power to practically run the washer without exerting the operator. The flywheel is grooved so a belt may be used on it, making this a hand and power washer in one. Machine can be directly belted to an engine or line shaft and can be opened or closed without shutting off the power or throwing off the belt. Large cypress tub—natural finish and all improved features. Capacity 8 shirts. Shipping weight 90 lbs.

List Price, \$13.50.
Belt Pulleys extra \$1.50
Our Special Price \$8.50
Belt Pulleys extra 1.25



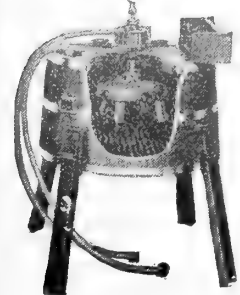
BANNER GEARLESS MOTOR

FOR CITY WATER POWER—Guaranteed for any pressure over 20 pounds.

Motor is constructed on the turbine principle of direct action—no gears or racks—only two self-lubricating bearings—only two well-protected and practically indestructible springs—heavy brass cylinder—and parts perfectly machined—perforated metal screen before intake port to prevent anything getting into the cylinder. Consumes less water than most washer motors, and will operate on very low pressure. Dasher post adjusts through top of motor—no projection below dasher.

Furnished with high-grade intake and exhaust hose. Large cypress tub—natural finish—with all improved features. Capacity 8 shirts. Shipping weight 60 lbs.

List Price, \$22.00
Our Special Price \$15.00



BALTIMORE "B"

Improved construction, perfect fitting and heavy castings make the gearing unusually strong, easy to operate and free of the excessive breakages often experienced with other washers of this type. The roller guide to hold the drive gear in position is also a decided improvement and advantage in insuring ease of operation and eliminating wear.

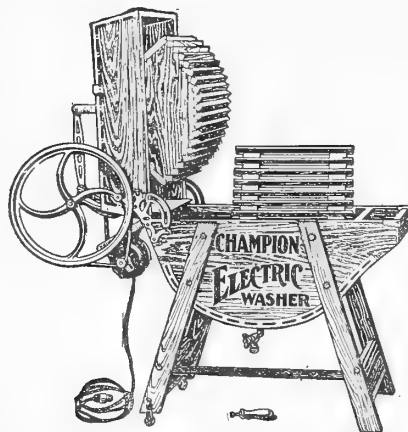
Large cypress tub—natural finish—with cypress dasher—corrugations on inside. Galvanized hardware and castings.

Capacity 8 shirts. Shipping weight 55 lbs.
List Price \$6.50. Our Special Price \$4.00

CHAMPION ELECTRIC
WASHER

A high-grade Washing Machine complete with best make electric motor, at such a moderate price that every home can afford to have one. Sold entirely on its merits.

The **Champion Electric** is furnished complete with motor, as illustrated, and is ready for use by simply screwing the attachment plug into the nearest electric light socket and turning the switch. The machine needs no attention whatever while running, and is absolutely trouble-proof, but in case of emergency it can be operated by hand by simply attaching the wheel-handle furnished for the purpose.



Open View.



Closed View.

the washer only—it can be used to operate a churn, ice cream freezer or any small household appliance adapted for the purpose.

The Champion Electric Is Built to Last a Lifetime.

The tub and all wood parts are Louisiana Red Cypress—the most durable and satisfactory wood known for washing machine construction. Finished natural with water proof varnish.

The mechanism is extremely simply—has no gears or breakable parts. The machine-fit bearings make it noiseless in operation. Inside iron parts and hardware are heavily galvanized and rust-proof.

The motor is high grade standard make, constant duty type, with ample power to operate the washer with maximum load. No better motor is made.

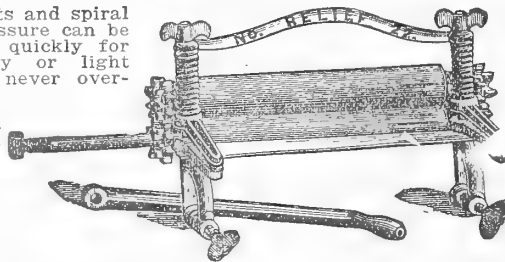
It is mounted on an adjustable bracket, making it very easy to take up any slack in the belt when necessary. As attached the motor counter-balances the weight of the cover—making the machine very easy to open—a child can handle it.

No. 2—Regular Family Size.....\$29.75
No. 3—Large Size.....32.75

RELIEF WRINGER

FRAME MADE ENTIRELY OF WROUGHT AND MALLEABLE IRON.

Thumb-nuts and spiral springs; pressure can be adjusted quickly for either heavy or light work; rolls never overstrained; wear longer than ordinary iron-frame wringer; cog wheels. Packed four and six in a case.



No. 330—SMALL FAMILY—Size of Rolls, 10x1 3/4-in.....\$3.50
No. 332—LARGE FAMILY—Size of Rolls, 12x1 3/4-in.....4.25
No. 330 Rolls, 10-inch, each.....1.00
No. 332 Rolls, 12-inch, each.....1.25

THE MAJESTIC

ROTARY WASHER

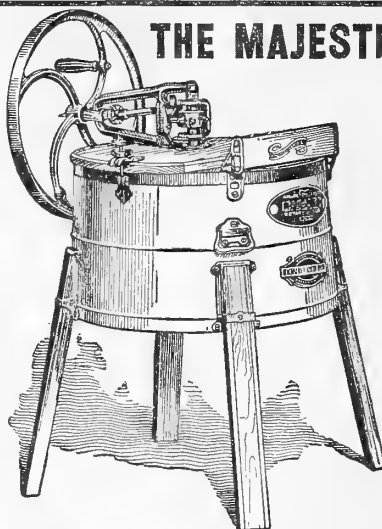
ELECTRIC WELDED
WIRE HOOPS.VIRGINIA WHITE
CEDAR TUB.

ROLLER BEARINGS.

This is the lightest-running and easiest-working Washing Machine made. Roller bearings; no friction. Works in both directions. Very simple; nothing to get out of order. Nicely corrugated on sides and bottom. Hoops are galvanized wire and are welded by electricity; these are much stronger than the old-style flat hoops, and CANNOT DROP OFF, being sunk in grooves.

OUR SPECIAL PRICE,

\$7.00.



BALTIMORE CEDAR

WASHER
ELECTRIC WELDED
WIRE HOOPS.

OUR SPECIAL PRICE

\$4.00

Constructed of best white cedar; improved bearings; all castings jappanned. Inside fully corrugated like a washboard; no nails; no crevices for dirt, and allowing no steam to escape or water to leak. A square galvanized-iron rod, instead of wood, to work the dolly; this can be lowered or raised without moving tops. Accommodates itself automatically to quantity of clothes. Impossible to tear the most delicate fabric. Our Special Price, \$4.00.



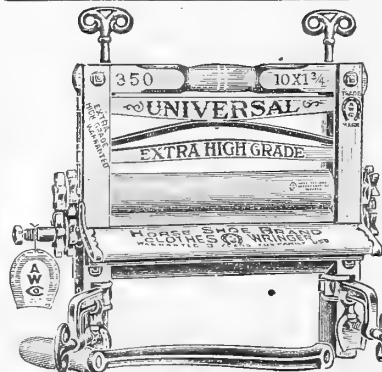
THE MARYLAND WASHER

To meet the demand for a low-priced Washer, we offer the Maryland, which is made of pine instead of cedar, but in all other respects is the same as Baltimore Cedar shown above.

Our Special Price.....\$3.50

SUPERIOR WRINGERS

Name.	Size of Rolls.	Price.
Superior, No. 250.....	10x1 3/4-in.	\$3.25
Superior, No. 2.....	12x1 3/4-in.	4.00
CRESCENT—Same as Relief, but cheaper grade rolls.		
No. 130.....	10-inch.	3.00
No. 132.....	12-inch.	3.75
STAR—No. 10.....	10x1 3/4-in.	4.30
EXTRA ROLLS—		
Superior.....	10-inch.	1.00
Superior.....	12-inch.	1.25

UNIVERSAL
WRINGER

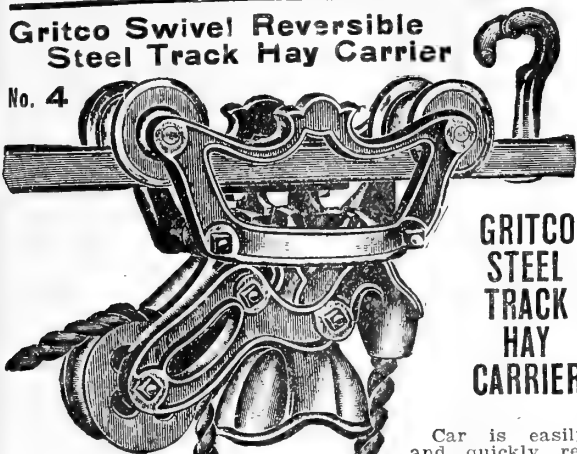
The Universal Wood Frame Wringer has Thumb Screw and leaf spring pressure which is quickly adjusted.

The rolls are the best quality and are warranted for family use for three years.

No. 351—Size of Rolls,
11x1 3/4.....\$3.25
No. 352—Size of Rolls,
12x1 3/4.....\$3.75
No. 356—Size of Rolls,
14x1 3/4.....\$4.56

Gritco Swivel Reversible Steel Track Hay Carrier

No. 4



GRITCO STEEL TRACK HAY CARRIER

GRITCO WOOD TRACK HAY CARRIER

Wood Track Carrier, List, \$7.00; Retail, \$4.25. Special Discount for Cash.

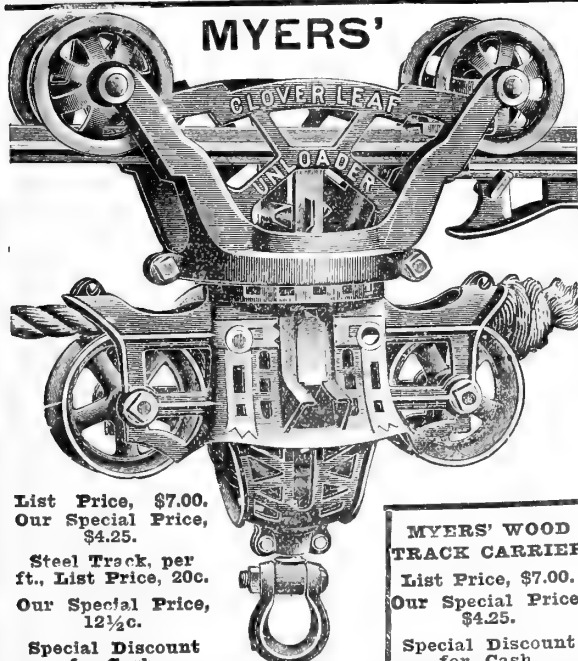
Car is easily and quickly reversed from the floor, contains no lugs or pins to break; heavier than cars ordinarily sold through this section. Entirely of malleable iron and high grade. Track traveler and rope pulley sheaves revolve on turned iron bushing. Car will not pass the trip-block while in operation.

Steel Track Carrier, List, \$7.00; Retail, \$4.25. Special Discount for cash.

STEEL TRACK FOR HAY CARRIERS

Steel Track for Gritco Car—List Price, 20c. Ft.; Our Special Price, 12½c. Ft.
Steel Track for Myers' Car—List Price, 20c. Ft.; Our Special Price, 12½c. Ft.

MYERS'



List Price, \$7.00. Our Special Price, \$4.25.

Steel Track, per ft., List Price, 20c. Our Special Price, 12½c.

Special Discount for Cash.

MYERS' WOOD TRACK CARRIER
List Price, \$7.00. Our Special Price, \$4.25.
Special Discount for Cash.

HARPOON HAY FORKS



G. & T. No. 1.

No. 2—Nellis Single Harpoon Fork. List, \$3.00 each; Retail, \$2.00.

No. 1—Double Harpoon Hay Fork, 25-in. tines. List, \$1.60 each; Retail, \$1.00.

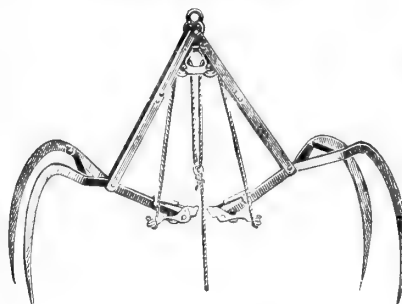
No. 1—Double Harpoon Hay Fork, 31-in. tines. List, \$2.00 each; Retail, \$1.50.

No. 1—Double Harpoon Hay Fork, 34-in. tines. List, \$2.50 each; Retail, \$2.00.

No. 2.



GRAPPLE FORKS.



G. & T. No. 3.

No. 3—4-Tine Aut. Grapple Fork. List, \$7.00 each; Retail, \$4.50.

No. 3—6-Tine Aut. Grapple Fork. List, \$8.50 each; Retail, \$5.25.

RAFTER BRACKETS

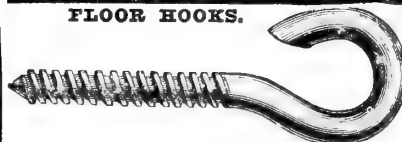


G. & T. No. 4.

No. 4—Rafter Bracket, steel. List, doz., 60c.; Retail, each, 5c.

No. 4—Rafter Bracket, malleable. List, doz., 60c.; Retail, each, 5c.

FLOOR HOOKS.



G. & T. No. 5.

No. 5—Floor Hook, ½-in. List Price, \$1.20 dozen; Retail Price, 8c.

No. 5—Floor Hook, ¾-in. List Price, \$1.40 dozen; Retail Price, 8c.

MYERS TRACK HANGERS.



G. & T. No. 6.

No. 6—Hanging Hook, steel track. \$1.40 dozen; 8c. each.

WOOD TRACK HANGERS.



G. & T. No. 7.

No. 7—14-in. Hanging Hook, wood track. \$1.20 dozen; 8c. each.

GRITCO TRACK HANGERS.

G. & T. No. 8.

No. 8—Hanging Hook Steel Track. List, \$1.40 dozen; Retail, 8c. each.

PULLEYS

G. & T. No. 9

MAPLE SHEAVE PULLEY.



No. 9—Maple Sheave Pulley 6-in. sheave. List, doz., \$3.20.

Retail, each, 20c.

G. & T. No. 10.

ALL IRON PULLEY.



No. 10—All Iron Pulley, has 5½-in. sheave, swivel eye. List, doz., \$3.20;

Retail, each, 20c.

G. & T. No. 11.

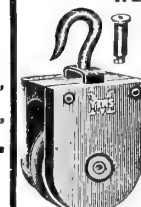
KNOT PASSING PULLEY.



No. 11—Knot Passing Pulley. List, doz., \$4.00. Retail, each, 25c.

G. & T. No. 12.

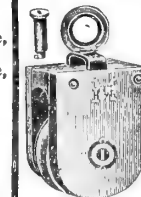
WOOD FRAME PULLEY, WITH HOOK.



No. 12—Wood Frame Pulley with Hook. List, doz., \$4.00; Retail, each, 25c.

G. & T. No. 13.

WOOD FRAME PULLEY, WITH EYE.



No. 13—Wood Frame Pulley with Eye. List, doz., \$4.00; Retail, each, 25c.

G. & T. No. 14.

SWIVEL ROPE HITCH.



No. 14—Swivel Rope Hitch. List, doz., \$3.20; Retail, each, 20c.

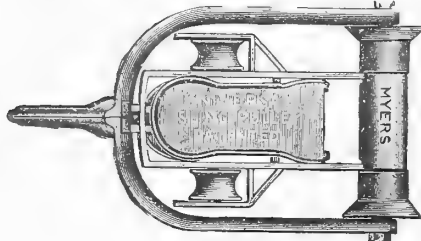
SLINGS

Made adjustable to suit any length of rack, from 17 to 20 feet.

G. & T. No. 15.



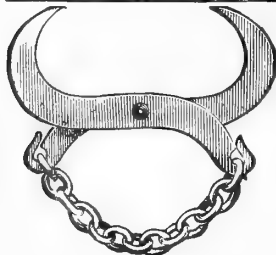
	List	Retail
No. 15—Center Trip Sling, 4-ft. bars.....	\$3.20	Each, \$2.00
No. 15—Center Trip Sling, 5-ft. bars.....	3.80	2.50
No. 15—Center Trip Sling, 6-ft. bars.....	5.00	3.50



SLING PULLEYS

G. & T. No. 16.

	List Price.	Our Special Price.
No. 16—Universal Sling Pulley.....	\$3.00	Each, \$2.00
No. 16—Ideal Sling Pulley.....	3.00	2.00
No. 16—Baltimore Sling Pulley.....	3.00	2.00



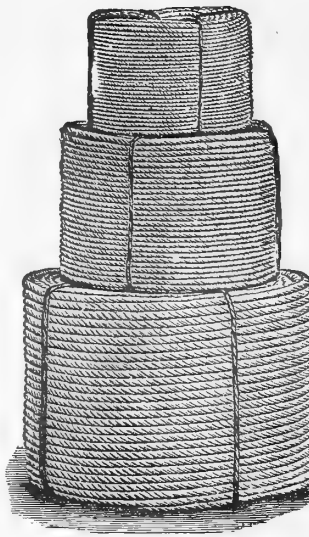
RAFTER GRAPPLE

G. & T. No. 17.

No. 17—Rafter Grapple, steel, per dozen.....\$10.00

60 cts. each.

	List Price.	Our Special Price.
No. 18—Hoisting Single Tree.....	\$1.60	Each, \$1.25
No. 19—Snatch Block.....	11.00	dozen, .75
No. 20—Extra Trips or Stops for Cars.....	.60	Each, .50
No. 21—Coupling for Track.....	.10	.10
Rafter Nails, per lb.....	.10	.10
Steel Track, per foot.....	.20	.12½



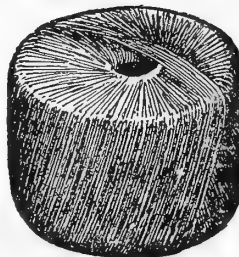
ROPE

Our stock of rope includes all sizes, from 3-16-inch up to 1 inch. These sizes we carry in stock and can furnish same in full coils or by the piece as desired. The quality of our rope is the best, and we will be pleased to name you the best possible price consistent with quality. We are unable to give prices here, as the market changes.

For Hay Forks we recommend ¾-in., 13-16-in. and ½-in., according to the length of rope.

Approximate length of Manila rope per pound, ¾-in., 6 feet to pound; 13-16-in., 5 feet to pound, and ½-in., 4 feet 3 inches to the pound.

Write for Prices.



BINDER TWINE

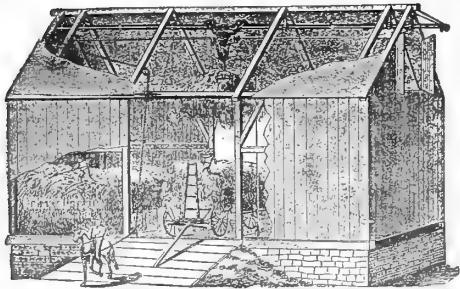
It is impossible to give the price of Binder Twine in advance, as the price is subject to market changes.

WRITE FOR PRICES.

FODDER YARN

PRICES ON APPLICATION.

MATERIAL REQUIRED FOR A STEEL TRACK OUTFIT



For a 40-Foot Barn—One Carrier, 40 feet of steel track, 21 hanging hooks, 21 rafter brackets, 5 knot passing pulleys, 1 D. H. Fork, 6 floor hooks, 110 feet 13-16-inch manila rope, 40 feet ¾-inch reverse rope.

For a 50-Foot Barn—One Carrier, 50 feet of steel track, 25 hanging hooks, 25 rafter brackets, 5 knot passing pulleys, 6 floor hooks, 130 feet 13-16-inch manila rope, 50 feet ¾-inch reverse rope.

For a 60-Foot Barn—One Carrier, 60 feet of steel track, 31 hanging hooks, 31 rafter brackets, 5 knot passing pulleys, 6 floor hooks, 160 feet 13-16-inch manila rope, 60 feet ¾-inch reverse rope.

IRON STRAPPED BLOCKS



Size of Sheave Inches.	Diam. Rope, Inches.	Length Shell, Inches.	Common Iron Bushed.					
			Single.		Double.		Triple.	
			List Price.	Retail Price.	List Price.	Retail Price.	List Price.	Retail Price.
3½ x 1 x 1½	¾	6	\$1.10	.55	\$2.00	\$1.00	\$2.90	\$1.45
4 x 1 x 1½	1	7	1.30	.65	2.40	1.20	3.50	1.75
4½ x 1 x 1½	1	8	1.65	.85	2.85	1.45	4.25	2.15
5 x 1 x 1½	1	9	1.85	.95	3.40	1.70	4.75	2.40
6 x 1 x 1½	1½	10	2.75	1.40	4.50	2.25	6.25	3.15
7 x 1 x 1½	1½	11	4.45	2.25	7.50	3.75	10.65	5.35
8 x 1 x 1½	1½	12	4.45	2.25	7.50	3.75	10.65	5.35
Patent Roller Bushed.								
3½ x 1 x 1½	¾	6	\$1.50	.75	\$2.85	\$1.45	\$4.40	\$2.20
4 x 1 x 1½	1	7	1.70	.85	3.35	1.70	5.00	2.50
4½ x 1 x 1½	1	8	2.25	1.15	4.15	2.10	6.00	3.00
5 x 1 x 1½	1	9	2.50	1.25	4.70	2.35	7.25	3.70
6 x 1 x 1½	1½	10	3.50	1.75	6.00	3.00	8.50	4.25
7 x 1 x 1½	1½	11	5.30	2.65	9.20	4.60	13.20	6.60
8 x 1 x 1½	1½	12	5.30	2.65	9.20	4.60	13.20	6.60

GRITCO HOIST

No. 40.—Two sheaves above, two sheaves below; for ½-inch rope; capacity, 800 lbs. One man can lift 400 lbs. 3-inch sheaves.

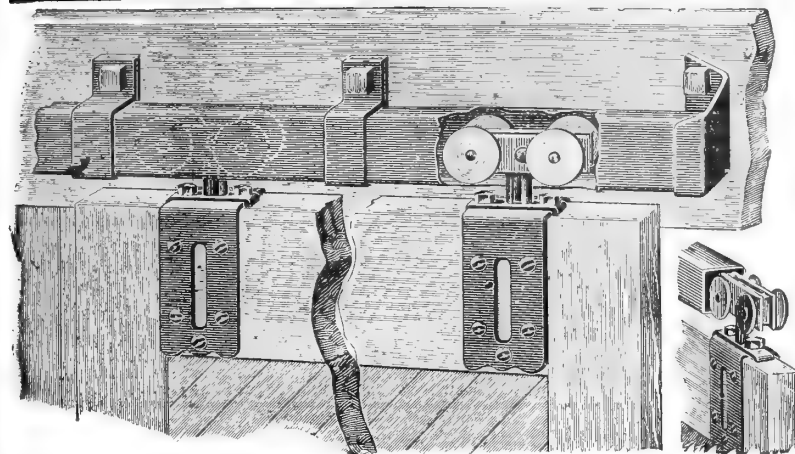
Factory list, \$4.00. Our Special Price, \$2.50.

No. 34.—Two sheaves above, 2 sheaves below; for ¾ inch to 1 inch rope; capacity, 1500 pounds. One man can lift 500 lbs. 4-inch sheaves. Factory list, \$6.00. Our Special Price, \$3.75.

No. 27.—Two sheaves above, 2 sheaves below; for ¾ inch to 1 inch rope; capacity, 1800 pounds. One man can lift 500 lbs. 5-inch sheaves. Factory list, \$10.00. Our Special Price, \$6.00.

Rope not included in price.





TROLLEY ROLLER-BEARING STEEL BARN DOOR HANGER No. 20 or 123 1/2

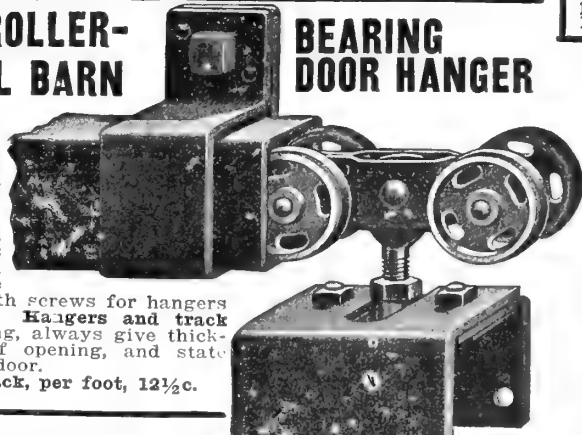
The only difference between the No. 20 and 123 1/2 is, the No. 123 1/2 has return apron, as shown in No. 225 cut below, and the No. 20 has not.

Weight, per pair, 10 lbs. Pendant, 6 inches long, 3 1/2 inches wide, 3-16 inch thick. These Hangers have lateral adjustments, and are suitable for doors from 1 1/2 to 2 1/4 inches thick. Hangers and track are sold separately. A pair of Hangers consists of two hangers and carriers, one right-end bracket, No. 51; one left-hand bracket, No. 50, and one center bracket, No. 52, complete with wood screws for hangers and lag screws for brackets. When ordering always give thickness of doors, the exact width of opening, and state whether for double or single doors. No. 131 track, No. 16 gauge, price, per foot, 12 1/2c. Hangers Nos. 20 and 123 1/2, per pair, \$1.75.

NO. 225 TROLLEY ROLLER-BEARING STEEL BARN

Has two adjustments—vertical and lateral. Has return apron. (See cut). Pendant 9 inches long, 3 1/2 inches wide, 3-16 inch thick. Suitable for doors 2 to 3 inches thick and weighing from 400 to 600 pounds. Made to run on No. 131 track. A pair of hangers consists of two hangers and carriers, one right- and one left-hand bracket, complete with screws for hangers and lag screws for brackets. Hangers and track sold separately. When ordering, always give thickness of door, exact width of opening, and state whether for single or double door.

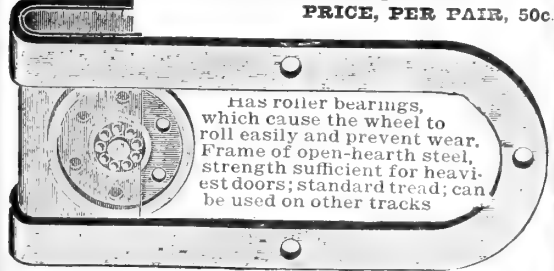
Per pair, \$2.50. No. 131 Track, per foot, 12 1/2c.



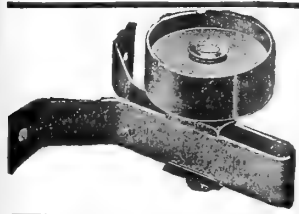
BEARING DOOR HANGER

Anti-Friction Barn Door Hanger No. 2

PRICE, PER PAIR, 50c.



The track is made of special carbon open-hearth steel, 1x3-16 stock; has heavy brackets well and substantially riveted every 12 inches. Ends made with tongue and groove to match. Track made in 4-, 6-, 8- and 10-foot lengths. Price, per foot, .c.



STAY ROLLERS

For use with Barn Door Hangers. Price, each, 15c.

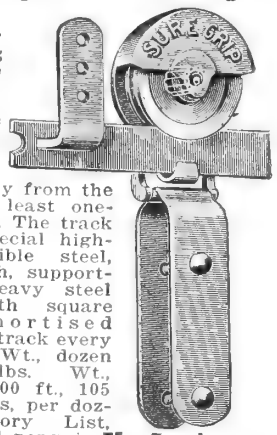


No. 24 Roller-Bearing Steel Barn and Fire Door Hanger

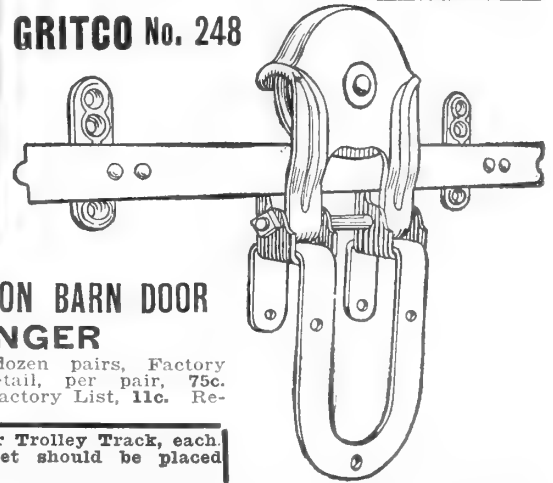
A pair of hangers consists of two hangers, one each right- and left-hand brackets, and one center bracket, complete, with wood and lag screws. The only Adjustable Double Apron made. Suitable for doors weighing 400 to 600 lbs. Adjustment lateral only. No. 1—For doors, 1 1/4 to 2 1/4 inches thick; weight, 12 lbs. No. 2—For doors 2 1/4 to 3 inches thick; weight, 12 lbs. This Hanger has return or double apron. Per pair, \$2.25. No. 131 Track, per foot, 12 1/2c.

Flexible Hinge Barn Door Hanger No. 843.

The door can be swung out from the bottom at any angle. The flexible feature allows the top of the door to move away from the building at least one-half an inch. The track is heavy special high-carbon flexible steel, 3-16x1 1/4 inch, supported by a heavy steel shoulder with square mortised through the track every 17 inches. Wt., dozen pairs, 70 lbs. Wt., track, per 100 ft., 105 lbs. Hangers, per dozen pairs, Factory List, \$16.00. Retail, per pair, 75c. Track, per foot, Factory List, 11c. Retail, 6c.



GRITCO No. 248



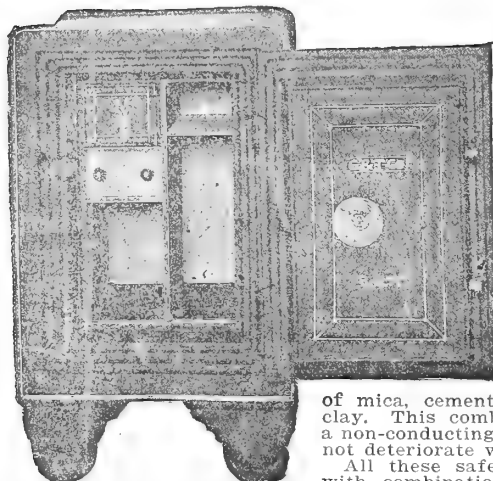
HINGE STAY-ON BARN DOOR HANGER

Hangers, per dozen pairs, Factory List, \$16.00. Retail, per pair, 75c. Track, per foot, Factory List, 11c. Retail, 6c.

Extra Brackets for Trolley Track, each, 12c. One Bracket should be placed every 5 feet.

SAFES

FOR BUSINESS AND HOME USE



These safes are made of the best steel plate, rounded at all corners, and reinforced at all corners and sides by heavy bars. Each safe has an additional steel lining to support the cabinet. This construction affords the very best protection against fire and thieves. The filling is composed

of mica, cement and fireproof clay. This combination forms a non-conducting wall that will not deteriorate with age.

All these safes are secured with combination lock, which

are the best on the market.

Each safe is fitted with a cabinet, provided with a steel sub-treasury with key lock, lock drawer, pigeon-holes and book space.

Each safe is finished in black, neatly decorated, and, if desired, we will have customer's name painted on.

	Outside Dimensions.			Inside Dimensions.			Wght.	Price.
	Hgt. In.	Wdth. In.	Dpth. In.	Hgt. In.	Wdth. In.	Dpth. In.		
No. 1....	24	16½	18	12	10	11	260	\$30.00
No. 2....	28	18	18½	15½	10½	11½	360	35.00
No. 3....	29	19	21½	17	12	13	420	40.00
No. 4....	34	24	22½	21	17	13	705	50.00
No. 5....	36½	25½	23½	23	18	14	765	60.00
No. 6....	41	30	23½	26	22	14	975	70.00

All of the above Safes have inside door except the No. 1.

Larger Safes and Vault Doors, prices on application.

SAXMAYER VEGETABLE TYER

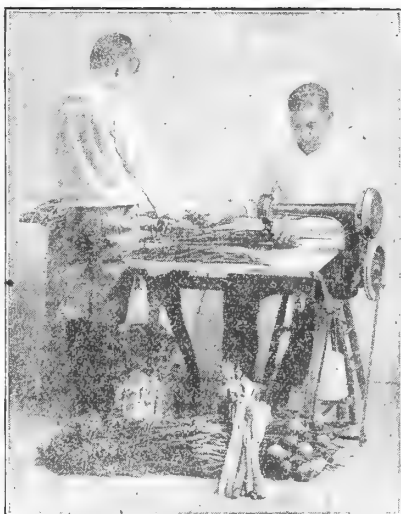
The machine somewhat resembles and is but little larger than a sewing machine, requires less power to run, and may be operated by treadle or driven by belt with a motor or gas engine. It may be kept in constant motion and automatically ties and releases each bundle only when it is placed in position for tying. It works so easily that a child can do more work with it than a number of grown persons could do by hand in the same time. The operator sits comfortably at the machine and does his work in perfect ease.

The framework and table are both made of metal of substantial and ornamental design. The tying mechanism is of bronze, which insures long life and will not rust.

Try it and see for yourself. It will pay for itself in three to six weeks.

Price..... \$72.00

NET CASH.



Light Strap.

	List.		Retail.	
	Doz. Pairs.	Per Pair.	Doz. Pairs.	Per Pair.
4 in.	\$1.10	10c.	\$1.60	10c.
6 in.	1.70	10c.	2.80	15c.
8 in.	2.40	15c.	4.50	20c.
10 in.	3.30	20c.	6.80	25c.
12 in.	4.90	25c.	10.40	30c.

STRAP HINGES

Heavy Strap.



SCREW HOOK AND STRAP HINGES

6 to 12 inches, per lb.....	7c.
14 to 20 inches, per lb.....	6c.
22 to 36 inches, per lb.....	5c.



T-HINGES

	List.		Retail.	
	Doz. Pairs.	Per Pair.	Doz. Pairs.	Per Pair.
4 in.	\$.80	5c.	\$1.80	10c.
6 in.	1.20	10c.	3.00	15c.
8 in.	1.50	15c.	5.00	20c.
10 in.	2.20	20c.	7.40	25c.
12 in.	3.00	25c.	10.70	30c.



HINGE HASPS

	List.	Retail.
	\$.50 Doz.	\$.05 Each.
3-inch.....	.60	.05
4-inch.....	.80	.10
6-inch.....	1.05	.15

IRON FLAT HEAD WOOD SCREWS

No.	½-inch		No.	1½-inch	
	List, Gross.	Retail, Dozen.		List, Gross.	Retail, Dozen.
No. 4	\$.75	\$.05	No. 10	\$1.30	\$.13
No. 5	.78	.06	No. 11	1.40	.14
No. 6	.80	.08	No. 12	1.55	.15
No. 7	.84	.09			
No.	¾-inch		No.	1-inch	
	List, Gross.	Retail, Dozen.		List, Gross.	Retail, Dozen.
No. 6	\$.85	\$.08	No. 11	\$1.50	\$.15
No. 7	.90	.09	No. 12	1.65	.16
No. 8	.95	.10	No. 13	1.80	.18
No. 9	1.00	.10			
No.	1-inch		No.	2-inch	
	List, Gross.	Retail, Dozen.		List, Gross.	Retail, Dozen.
No. 8	\$1.05	\$.10	No. 12	\$2.00	\$.20
No. 9	1.10	.11	No. 13	2.20	.22
No. 10	1.20	.12	No. 14	2.45	.24
No. 11	1.30	.13			
No. 12	1.40	.14			

In Gross Lots, Retail, 60 Per Cent. from List.

FLORISTS' SOIL PULVERIZER

JUST THE THING

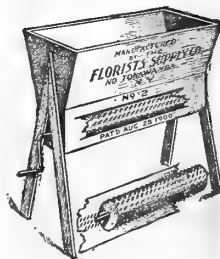
To Pulverize Soil, Crush Sod and Mix Fertilizer. Simple, Durable,

Easily Operated. Made in 3 Sizes.

No. 1—6x21-inch roll and 46 inches high. Suitable for houses of 5000 or less feet of glass. Price, \$15.00.

No. 2—6x42-inch roll and 46 inches high. Suitable for larger establishments. Price, \$20.00.

No. 3—Same as No. 2, with one extra roll and two extra side plates for reducing the soil finer. Price, \$30.00.



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

DANDELION PULLER

To Kill Dandelions You Must Get the Roots.

You slide the steel trowel-shaped blade of the puller straight down into the soil, close to weed. Then push the handle toward the weed, and pull up.

The root is caught by a patented double-tooth prong, which projects from inside of the blade, and up comes the root to the last inch, nothing left to start new growth. As the pull is directly up, the ground and lawn around the weed is undisturbed. The clog-proof prong which gets the root is the patented feature. Besides Dandelions, it pulls plantain and other weeds. Price, 50c.



GIANT CORN THINNER AND WEED PULLER



With proper care, corn may be pulled out of hard ground with no breaking off. No more tired backs, but a pleasure to thin corn. The entire implement is made of steel, except the handle, making it very durable. It will be found very useful for taking up all kinds of weeds, briars, narrow plantain, etc.

Weight, 3½ pounds. Price, \$1.25.

BUSH PULLER

A great labor saver. Do your grubbing with this tool. One man can do the work of five.

Price, \$4.00.



COMBINATION GARDEN TOOL



This is a Hoe, Rake, Weeder and Cultivator in one. It has been devised to meet the scientific gardener's requirements, cultivating at the right place—up to the plant and over the root. This tool is so constructed that it can be used in a comfortable standing position, being an anti-back breaker. Price, 75c.

MEHLER'S HANDY HOE



The hoe has entered the ground. Price \$1.00.

ERADO

ERADO does away with the old-fashioned laborious and back-breaking method of digging up dandelions and weeds of all kind by hand.

An amount of weed-killing solution is dropped on the root; then, by turning the tool the top of the plant is cut off. **ERADO** has two knives so placed that the top of a plant is cut off by only one-half turn of the tool.

It is a simple matter to refill **ERADO**. Remove the handle by a half turn. The solution is then put in the tube, and handle is easily replaced. **ERADO** is then ready for work. Push the plunger into the center of the plant. The solution is automatically allowed to run down on to the roots of the plant. Then give **ERADO** a quick half turn, and the top of the plant is cut off. A weed treated in this manner can never spring up again. The roots, as well as the top of the plant, are destroyed.

Erado A, Galvanized iron cylinder, brass tip, iron handle, 75c.

Erado D, solid brass, with iron handle, \$1.25.



NOVELTY LAWN WEEDER

A Great Back-Saver.

The curved edge of the blade enters and loosens the soil; pressure on the lever then causes the toothed jaw to grasp the plant, and a slight pull will dislodge it without disturbing the surrounding sod.

Price, 75c.

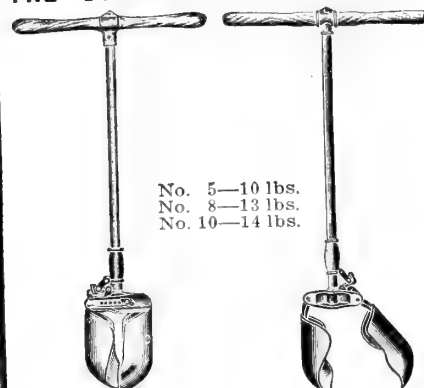


GIBBS' POST-HOLE DIGGER

Digs faster, works easier than any other on the market. All wearing parts have steel pins. Makes a hole of any desired diameter. First-class for tree-planting.

Price \$1.75

THE STANDARD EARTH AUGER



No. 5—10 lbs.
No. 8—13 lbs.
No. 10—14 lbs.

Closed.

Open.

Prices.

No. 5 bores four different size holes, 5, 6, 7 and 8 inches in diameter, 3½ feet deep. Each, \$2.75.

No. 8 bores seven different size holes, 8, 9, 10, 11, 12, 13 and 14 inches in diameter, 3½ feet deep. Each, \$3.00.

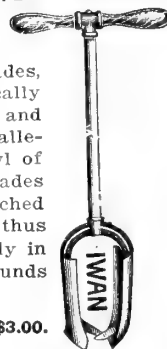
No. 10 bores nine different size holes, 8, 9, 10, 11, 12, 13, 14, 15 and 16 inches in diameter, 3½ feet deep. Each, \$3.50.

IWAN'S IMPROVED POST HOLE AND WELL AUGER

CONSTRUCTION.

Two crucible steel blades, each with two scientifically formed cutting edges, and riveted to a strong malleable arch, form the bowl of the auger. The two blades interlock, having notched edges for this purpose, thus holding each other firmly in place. Weight, 11 pounds each.

Price, 10-inch blades, \$3.00.



CROWBARS

Crowbars with Pinch Point, from 20 to 25 lbs., per lb., 6c.

Crowbars with Wedge Point, from 20 to 25 lbs., per lb., 6c.

Digging Bar and Rammer combined, each, \$1.50.

Digging Bar with Loop Handle, each, \$1.50.

WEDGES

Strong steel wedges for splitting wood, have the right taper and will stick in the wood.

Weight from three to six pounds.

Price, per pound, 5c.

GARDEN HOES



- No. G 02—Solid Steel Garden Socket Hoe, XX Handle; each.....\$.60
 No. G 2—Solid Steel Garden Shank Hoe, XX Handle; each.....\$.55
 No. R O A—Riveted Shank Garden Hoe; each.....\$.25
 No. L Y 5—Solid Steel Lady's Shank Hoe, XX Handle; each.....\$.50
 No. 2 P—Two-Point Solid Steel Weed Hoe; each.....\$.30
 No. 1 P—Sharp-Point Steel Blade Weed Hoe; each.....\$.25

PLANTER HOES

- No. P 7—Heavy-Handled Planter Shank Hoe, 7-inch blade.....\$.60
 No. P 7½—Heavy-Handled Planter Shank Hoe, 7½-inch blade.....\$.65
 No. P 8—Heavy-Handled Planter Shank Hoe, 8-inch blade.....\$.70

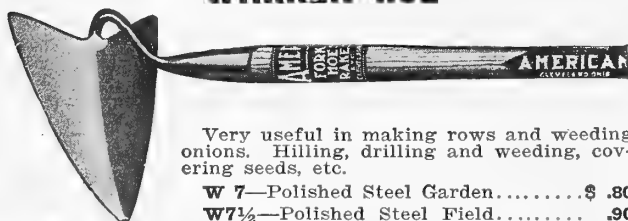
COTTON HOES

- No. R. C. 7—7-inch-Handled Cotton Hoe.....\$.50
 No. R C 7½—7½-in-Handled Cotton Hoe.....\$.55
 No. R C 8—8-inch-Handled Cotton Hoe.....\$.60

MORTAR HOES

- No. 9—9-inch Blade, Solid Steel Shank, 5½-foot Handle...\$.65
 No. 10—10-inch Blade, Solid Steel Shank, 6-foot Handle...\$.75
 No. S 9—9-inch Blade, Solid Socket, 5½-foot Handle.....\$.75
 No. S 10—10-inch Blade, Solid Socket 6-foot Handle.....\$.85

WARREN HOE



Very useful in making rows and weeding onions. Hilling, drilling and weeding, covering seeds, etc.

- W 7—Polished Steel Garden.....\$.80
 W 7½—Polished Steel Field.....\$.90

CRESCENT DOUBLE-BIT HOE



- No. 70—Crescent Double-Bit Hoe, Blades 3¼-inch and 7-inch.....\$.60

CRESCENT CULTIVATOR

- No. 67—7-inch steel blade, 4 1-3 foot handle.....\$.40

HEAVY HANDLED MATTOCK HOE

Sharp-pointed like a pick at one end, mattock at the other.

- No. 75—Heavy-Handled Mattock Hoe, special temper...\$.70



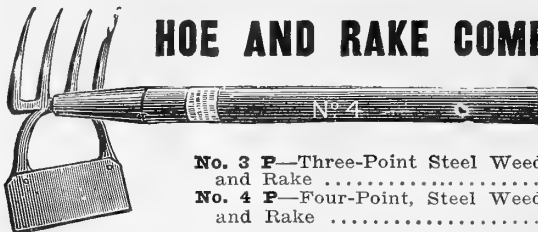
SPROUTING HOES

- No. 64½—Heavy-Handled Sprouting Hoe, 4½-in. blade, special temper.....\$.65

STREET HOE

- No. 12—12-inch blade, steel shank, 6-foot handle.....\$.90

HOE AND RAKE COMBINED



- No. 3 P—Three-Point Steel Weed Hoe and Rake.....\$.45
 No. 4 P—Four-Point, Steel Weed Hoe and Rake.....\$.50

DIG-EZY MATTOCK HOES

This Hoe is similar to Crescent Double-Bit Hoe, and is made in three sizes.

- No. D E 2—1½-in. and 2-in. blades.....\$.50
 No. D E 3—1½-in. and 3-in. blades.....\$.55
 No. D E 3½—1½-in. and 3½-in. blades.....\$.60

THE VICTOR GARDEN CULTIVATOR



The Victor Garden Cultivator is popular because it is made of best material. The shanks and blades are of extra good stock, and are easily adjusted.

- No. 90—Complete, on 5-foot handle, with 3x5 blades.

Each.....\$1.00

INVINCIBLE GARDEN CULTIVATOR



The leading Cultivator of its kind on the market. Made of best material. Tines can be adjusted by simply turning a nut. Price.....\$.75c.

EVANS GARDEN CULTIVATOR



- No. E C 6—6 steel tines, adjustable, malleable head, common ferrule, 5-foot handle.....\$.75c.

SCUFFLE HOES

- 4-in., Eng....\$.50 8-in., Eng....\$.70
 6-in., Eng....\$.60 10-in., Eng....\$.80
 No. X G S—Brace or Shank Scuffle Hoe, 8-inch Steel Blade, with Handle.....\$.60



EDGING KNIFE

- No. 040—Solid Steel, Turf Edger.....\$.65

ICE HOOKS

- No. I H 6—6-ft. Handle, Strapped Ferrule.....\$.65
 No. I H 7—7-ft. Handle, Strapped Ferrule.....\$.80
 No. I H 8—8-ft. Handle, Strapped Ferrule.....\$.90

SIDEWALK CLEANERS

- No. X 8—8-in. Steel Blade.....\$.50
 No. O S C 7—7-in. Solid Socket; Handle.....\$.60

STEEL RAKES



- Each.
- No. 10 C.—Curved tooth, 10-tooth...50c.
 - No. 12 C.—Curved tooth, 12-tooth...55c.
 - No. 14 C.—Curved tooth, 14-tooth...65c.
 - No. 16 C.—Curved tooth, 16-tooth...70c.
 - No. 10.—Straight tooth, 10-tooth...50c.
 - No. 12.—Straight tooth, 12-tooth...55c.
 - No. 14.—Straight tooth, 14-tooth...65c.
 - No. 16.—Straight tooth, 16-tooth...70c.
 - No. 18.—Straight tooth, 18-tooth...80c.

SOLID BOW STEEL GARDEN RAKES

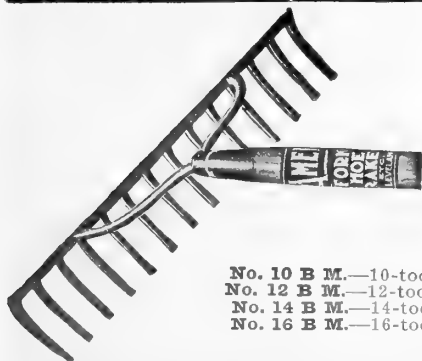


- No. B 12.—Prize bow-braced rake, solid steel, 12 teeth. Price, 70c. each.
- No. B 14.—Prize bow-braced rake, solid steel, 14 teeth. Price, 85c. each.
- No. B 16.—Solid bow-braced rake, solid steel, 16 teeth. Price, 90c. each.

MALLEABLE RAKES



- Each.
- No. 10 S M.—10-tooth, single shank...20c.
 - No. 12 S M.—12-tooth, single shank...25c.
 - No. 14 S M.—14-tooth, single shank...30c.
 - No. 16 S M.—16-tooth, single shank...35c.



- No. 10 B M.—10-tooth, braced shank, 25c.
- No. 12 B M.—12-tooth, braced shank, 30c.
- No. 14 B M.—14-tooth, braced shank, 35c.
- No. 16 B M.—16-tooth, braced shank, 40c.

EXTRA HEAVY STEEL ROAD RAKES

- No. X 12.—12-tooth...\$.95
- No. X 14.—14-tooth...1.00
- No. X 16.—16-tooth...1.10

STEEL ASPHALT RAKES

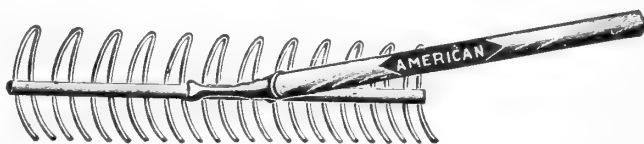
- No. 914.—14-tooth, strap ferrule...\$1.30

GRITCO WOOD RAKES



- No. 36 X.—24-tooth, 3 Wood Bows...\$.50
- No. 37 X.—24-tooth, 3 Steel Tube Bows...50
- No. 06 C.—12-tooth, 2 Wood Bows...25
- No. 05 B.—12-tooth, 2 Steel Tube Bows...40

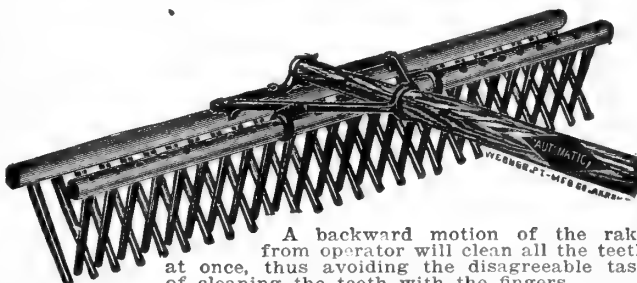
WIRE LAWN RAKES No. 24



As can be seen by the shape of the teeth, these rakes run smooth and will not dig in the sod. By reversing the double teeth are used for leaves and rubbish. 21-inch head. 24 Teeth, with Handle, 40c. each.

Reversible, Heavily Tinned.

AUTOMATIC SELF-CLEANING LAWN RAKES



A backward motion of the rake from operator will clean all the teeth at once, thus avoiding the disagreeable task of cleaning the teeth with the fingers.

22 Teeth, 60c. Each. 26 Teeth, 70c. Each.

HARVEST RAKES



No. 211.—The malleable brace is fastened to the rake head with two rivets and two extension lugs that grip around the rake head. It has 10 teeth. With Handle, 25c. each.

SPLIT HEAD RAKES

- 8-Tooth, All-Wood Hay Rake...25c.
- 10-Tooth, All-Wood Hay Rake...30c.
- 20-Tooth, All-Wood Lawn Rake...50c.

OLE OLSEN LAWN RAKES

Malleable Ferrule. Price, 50c.

TRUE TEMPER GARDEN OUTFIT

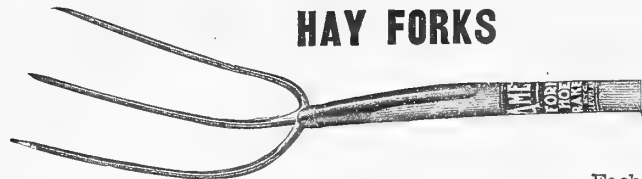
No. T T G O.—7-piece set, consisting of one each extra quality tools, Laid Edge Hoe, Bow Rake, Spading Fork, Weeder, Garden Trowel, Turf Edger and two Stakes with 45-ft. lines. Price, \$4.50....

GARDEN SETS

- No. 3 P F.—3-piece, 5-T Rake, Shovel and Hoe. \$1.00 set.



HAY FORKS



- No. 26.—Two-tine hay, common ferrule, 6-foot straight handle..... Each.
 No. 026.—Two-tine, strap ferrule, 6-foot straight handle..... \$.75
 No. 027.—Two-tine, strap ferrule, 7-foot straight handle..... .85
 No. 028.—Two-tine, strap ferrule, 8-foot straight handle..... 1.00
 No. 33.—Three-tine, 6-foot handle, common ferrule..... .80
 No. 036.—Three-tine, 6-foot handle, strap ferrule..... .90
 No. 037.—Three-tine, 7-foot handle, strap ferrule..... .95
 No. 038.—Three-tine, 8-foot handle, strap ferrule..... 1.00

LONG HANDLE MANURE FORKS



- No. 44½ Z.—Oval, four-tine, light, not strapped..... Each.
 No. 044½ Z.—Four-tine, 4½-foot handle, strap ferrule..... \$.50
 No. L 044½ Z.—Four-tine, patent locked, strapped..... .65
 No. L 044½ Z.—Patent locked, extra heavy, full polished, strapped..... .80
 No. 054½ X.—Five-tine, ferrule, long handle..... 1.00
 No. 064½ X.—Six-tine, ferrule, long handle..... .85
 No. 064½ X.—Six-tine, ferrule, long handle..... 1.00

BATCHELOR FORK.

- No. 044½.—Four-tine, 4½-foot handle, strap ferrule.... .75
 No. 44½.—Batchelor Fork, four-tine, 4½-foot handle, plain ferrule..... .70

D-HANDLE MANURE FORKS.

- No. 04DZ.—D Handle, four-tine..... .65
 No. 4 W.—D Handle, four-tine, plain ferrule..... .90
 No. 04 D.—D Handle, four-tine, cap ferrule..... .80
 No. 05 D.—D Handle, five-tine, cap ferrule..... 1.10
 No. 06 D.—D Handle, six-tine, cap ferrule..... 1.15
 No. 151.—Four-tine, diamond tine, heavy, malleable D handle..... 1.25
 No. 1153.—Four 16-inch extra heavy tines. 27-inch wood D handle..... 1.50
 No. 1157.—Five 16-inch extra heavy tines. 27-inch wood D handle..... 1.90

SPADING FORKS

- No. A H O I W.—Pat. Locked Spading Forks, extra heavy, strap ferrule. Price, \$1.15 Each.
 No. H W.—Four-tine, angular back. Price..... 1.10



- No. O I D.—Medium weight, angular tine, malleable D handle, strap ferrule. Price..... \$.85
 No. S 4.—Columbia Socket, 4 heavy polished angular tines, solid socket, 4-foot handle. Price..... 1.00
 No. S D.—4 heavy polished angular tines, solid socket, iron D handle. Price..... 1.00
 No. J O W.—Jumbo, 4 polished tines, extra heavy strapped ferrule, wood D handle. Price..... 1.10
 No. J O 4.—4 polished tines, extra heavy strapped ferrule, 4-ft. handle. Price..... 1.00
 No. B 4 D.—Boys, four-tine. Price..... .55

MANURE FORK HANDLES
WITH PLAIN
AND STRAP FERRULE.

- No. X.—4½ ft., with plain ferrule, no cap. List. Doz., \$3.20; Retail, Each, 25c.
 No. X.—4½ ft., with strap ferrule and cap. List. Doz., \$4.20; Retail, Each, 30c.

MANURE FORK HANDLES.

- List, Ret'l, Doz. Ea.
 Plain.
 No. X.—4½ ft..... \$2.30 \$.20
 HAY FORK HANDLES.
 Plain.
 No. X.—6 ft..... \$2.60 \$.25
 No. X.—7 ft..... 3.60 .30
 No. X.—8 ft..... 5.00 .35

GARDEN HOE HANDLES.

- Doz. Ea.
 No. X..... \$1.60 \$.15
 EYE HOE HANDLES.
 List, Ret'l, Doz. Ea.
 No. X.—5 ft. 2 in. butt..... \$2.50 \$.20

SHOVEL HANDLES.

- Doz. Ea.
 No. X.—L. H., 4½ feet..... \$3.10 \$.25
 No. X.—D. H..... 3.50 .35
 No. X.—D. H., Spade Handles..... 3.35 .35

RAKE HANDLES.

- List, Ret'l, Doz. Ea.
 No. X.—5 ft..... \$1.75 \$.15

GENERAL UTILITY FORK



- No. 910.—Ten-tine, scoop shape, malleable D handle, strap ferrule..... Each.
 No. 912.—Twelve-tine, scoop shape, malleable D handle, strap ferrule..... \$1.80
 2.10

Especially for handling beets, onions, apples, corn, etc. Tine points are flattened and rounded, so as not to injure potatoes, etc.

- No. 714.—Coke Forks, fourteen-tine, D handle, strap ferrule..... 2.30
 No. 100 S.—Ten-tine, D handle, stone fork..... 1.90
 No. 102 S.—Twelve-tine, D handle, stone fork..... 2.25

WIRE POTATO SCOUP



- CHAMPION SCOUP..... \$1.50

OAT AND BARLEY FORKS



- No. 4 W B.—Price, each..... \$.90
 No. 6 W B.—Each..... 1.10

STEEL BARLEY FORKS

- No. B 185.—Four 18-in. oval tines, plain ferrule, 5-ft. bent handle..... Each.
 No. B 0185.—Four 18-in. oval tines, strap ferrule, 5-ft. bent handle..... \$1.10
 1.25

ENSILAGE FORKS

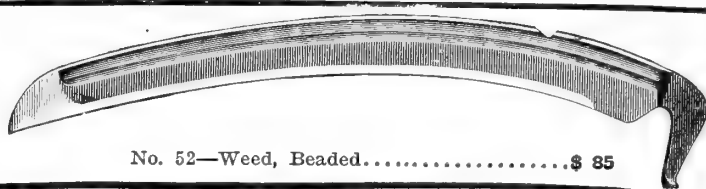
- No. 508 F.—Eight 16-in. tines, strap ferrule, iron D handle..... Each.
 No. 510 F.—Ten 17-in. tines, strap ferrule, iron D handle..... \$1.50
 2.00

STABLE FORKS

- Three-prong Oak Wood Stable Forks..... Each.
 Four-prong Oak Wood Stable Forks..... \$.75
 1.00



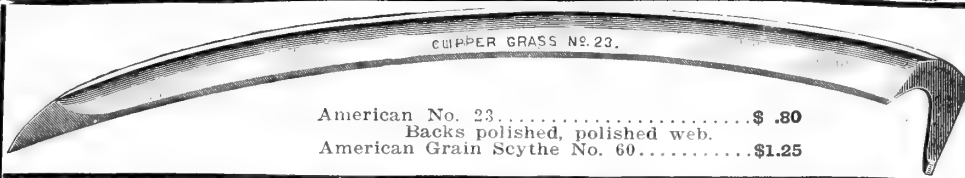
No. 50—Best Bush or Briar Scythe, Beaded, American Pointed. Price, 85c.



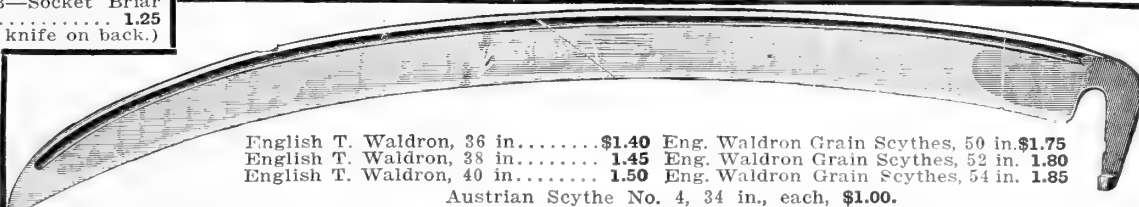
No. 52—Weed, Beaded.....\$ 85

BUSH AND BRIAR HOOKS

No. 380—Axe Handle Hook.....\$0.75
No. 390—Two - Ring Bush Hook......75
No. 393—Socket Briar.....1.25
(With knife on back.)



American No. 23.....\$.80
Backs polished, polished web.
American Grain Scythe No. 60.....\$1.25



English T. Waldron, 36 in.....\$1.40 Eng. Waldron Grain Scythes, 50 in.\$1.75
English T. Waldron, 38 in.....1.45 Eng. Waldron Grain Scythes, 52 in. 1.80
English T. Waldron, 40 in.....1.50 Eng. Waldron Grain Scythes, 54 in. 1.85
Austrian Scythe No. 4, 34 in., each, \$1.00.

SCYTHE

SNATHS



No. 80—Ring Fastening Socket, iron trimmed. Retail price.....\$.70
No. 55—Patent Loop, solid plate, iron trimmed. Retail price......80
No. 100—Two Rings, Bush Snath. Retail price......90
No. 105—Patent Bush Snath. Retail price.....1.00

SCYTHE STONES



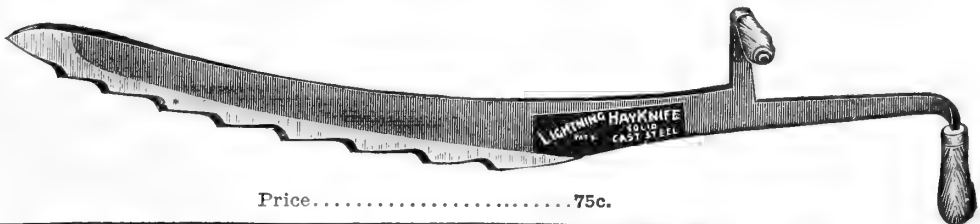
White Mountain. 10c. each.
Green Mountain. 10c. each.
Indian Pond, No. 2 (red end), 5c. each.
Mowing Machine (beveled). 10c. each.
Darby Creek. 10c. each.
Lectro, 10c. each.
Emery Scythe Rifles, two-coat. 10c. each.
Emery Scythe Rifles, three-coat. 10c. each.
Emery Scythe Rifles, four-coat. 15c. each.

Premium Balance Long Sweep Grain Cradle



The Premium Balance Cradle is made from best material and nicely finished with English Waldron Blade. Four-finger, \$4.75; Five-finger, \$5.00; with four-finger American Blade, \$3.50; five-finger, \$3.75.
Oil Sprung Cradle Fingers, each, 20c.

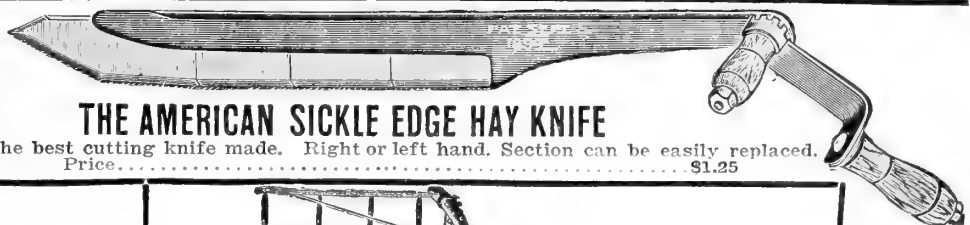
LIGHTNING PATTERN HAY KNIFE



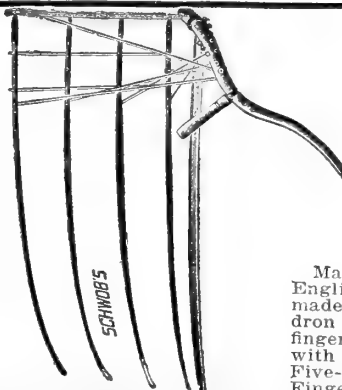
Price.....75c.

THE AMERICAN SICKLE EDGE HAY KNIFE

The best cutting knife made. Right or left hand. Section can be easily replaced.
Price.....\$1.25

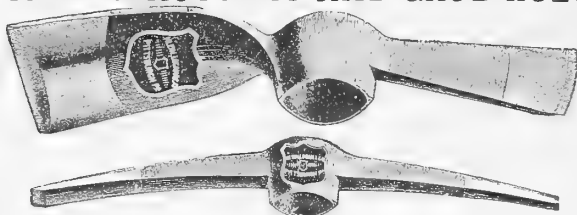


SCHWOB HAND MADE CRADLE



Made from the best material, with English and American Blades. Hand-made Schwob Cradle, with English Waldron Blade. Four-finger, \$5.00; Five-finger, \$5.25. Hand-made Schwob Cradle, with four-finger American Blade, \$4.00; Five-finger, \$4.25. Oil Sprung Cradle Fingers, each, 20c.

PICKS MATTOCKS AND GRUB HOES



- No. 1 Gritco—6 to 7, 7 to 8 and 8 to 9 lbs., Best Quality Warranted Steel Railroad Picks.....75c.
 No. 2—6 to 7, 7 to 8 and 8 to 9 lbs., Regular Iron Railroad Picks.....50c.
 No. 1—Gritco—5-lb. Best Quality War. Steel Mattocks.....\$.90
 1—Gritco—6-lb. Best Quality War. Steel Mattocks.....1.00
 2—5 and 6-lb. Best Refined Iron Mattocks (Steel Cutters).....Each, .70 \$17.00
 1 and 2 Gritco—Warranted Steel Grub Hoes......65
 1—3½-lb. Best Refined Iron Grub Hoes (Steel Bit)......45 12.00
 2—4-lb. Best Refined Iron Grub Hoes (Steel Bit)......50 13.00

PICK AND MATTOCK HANDLES

- No. XX—Best Quality Selected Second Growth Hickory Pick Handler.....\$.30
 Excelsior—Good Quality White Hickory Pick Handles......25
 1—Good Quality White and Red Hickory Pick Handles......20
 2—Mixed White and Red Hickory Pick Handles......15

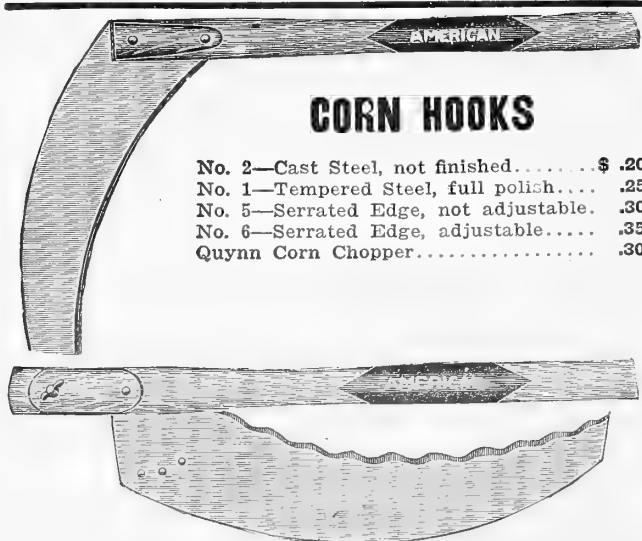
POTATO HOOKS



- No. 4 B. O. M.—Flat, Oval, 4 Tine Solid Steel.....\$.60
 No. 4 B. O. H.—Heavy Broad Oval Tines, Bent Head, 5-Foot Handle......70
 No. 5 B. O. H.—5 Tines, Heavy Broad Oval Tines, Bent Head, 5-Foot Handle......80

MANURE HOOKS

- No. M 40—Four Oval Tines, Bent Head, Plain Ferrule, 6-Foot Handle.....\$.70
 No. M 60—Six Oval Tines, Bent Head, Plain Ferrule, 6-Foot Handle......80



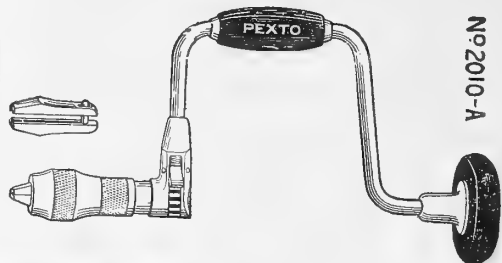
CORN HOOKS

- No. 2—Cast Steel, not finished.....\$.20
 No. 1—Tempered Steel, full polish......25
 No. 5—Serrated Edge, not adjustable......30
 No. 6—Serrated Edge, adjustable......35
 Quynn Corn Chopper......30

CORN KNIVES

- No. 21—"Will Cut" or Clipper.....\$.25
 No. 22—"Will Cut," Bread, Gorged Steel......30
 Eureka Curved Blade, Forged Steel, Hardened in Oil......50

BRACES



No 2010-A

- No. 2010—Price, 75c.
 No. 2410—A Brace suitable for the best work; nicely finished. Price, \$1.00.



ADZ-EYE NAIL HAMMER

- No. 1831½—1-lb., Not Polished. Retail Price.....35c.
 No. 1851½—1-lb. Polished. Retail Price.....50c.

FILES

		List Price, Dozen.	Retail Price, Each.
Mill Saw Bastard.....	10 in.	\$5.60	15c.
Mill Saw Bastard.....	12 in.	7.50	20c.
Mill Saw Bastard.....	14 in.	10.70	28c.
Flat Bastard.....	10 in.	7.00	18c.
Flat Bastard.....	12 in.	9.70	25c.
Flat Bastard.....	14 in.	13.30	35c.
Half Round Bastard.....	10 in.	9.10	25c.
Half Round Bastard.....	12 in.	11.80	30c.
Half Round Bastard.....	14 in.	15.50	40c.
Cross Cut Saw.....	8 in.	7.50	20c.
Cross Cut Saw.....	10 in.	9.10	25c.
Cross Cut Saw.....	12 in.	11.80	30c.

		List Price, Dozen.	Retail Price, Each.
Taper Saw Files.....	3 in.	\$2.10	6c.
Taper Saw Files.....	3½ in.	2.10	6c.
Taper Saw Files.....	4 in.	2.20	6c.
Taper Saw Files.....	4½ in.	2.40	7c.
Taper Saw Files.....	5 in.	2.60	7c.
Taper Saw Files.....	5½ in.	3.00	8c.
Taper Saw Files.....	6 in.	3.40	9c.
Taper Saw Files.....	7 in.	4.30	11c.
Taper Saw Files.....	8 in.	5.40	14c.
Taper Saw Files.....	9 in.	6.60	18c.
Taper Saw Files.....	10 in.	8.10	21c.



BUSCH AND BRIAR HOOKS

- No. 380—Axe Handle Bush Hook.....\$.75
 No. 390—Two-Ring Bush Hook......75
 No. 393—Socket Briar, with Knife on back.....1.25

AXE HANDLES

- No. E X C—Extra Selected Second Growth, All White Hickory Axe Handles.....\$0.25
 No. 1—Selected White Hickory Axe Handles......30
 No. 2—White and Red Hickory Axe Handles......15
 No. 3—White and Red Hickory Axe Handles......12



AXES

Our Axes are of best quality. We only sell those we know to be first class, and have an established reputation.

Gritco, Single Bit—3 to 4 lbs., 3½ to 4½ lbs., 4 to 5 lbs., 4½ to 5½ lbs. Each, 75c.

Red Warrior, Single Bit—Can be had in any weight from 3 to 5½ lbs. Each, 75c.

Red Warrior, Double Bit—4 to 5 lbs., \$1.00.

GRASS HOOKS

- Best English Grass Hook—No. 2.....\$.35
 Best English Grass Hooks—No. 3......50
 Best English Hedge or Grass Hooks—No. 4......60
 Best English Hedge or Grass Hooks—No. 5, riveted back......75

HOLLOW BACK SCOOPS.



- | No. | Each. |
|--|--------|
| 274 Oriole—D Handle, West. Pattern or Grain Scoop, No. 4.. | \$.80 |
| 276 Oriole—D Handle, West. Pattern or Grain Scoop, No. 6.. | .85 |
| 278 Oriole—D Handle, West. Pattern or Grain Scoop, No. 8.. | .90 |



- | | |
|---|--------|
| 263 Oriole—D Handle, Eastern Pattern or Coal Scoop, No. 3.. | \$.70 |
| 264 Oriole—D Handle, Eastern Pattern or Coal Scoop, No. 4.. | .75 |
| 265 Oriole—D Handle, Eastern Pattern or Coal Scoop, No. 5.. | .80 |
| 266 Oriole—D Handle, Eastern Pattern or Coal Scoop, No. 6.. | .85 |

PLAIN BACK SHOVELS—Carbon Steel.



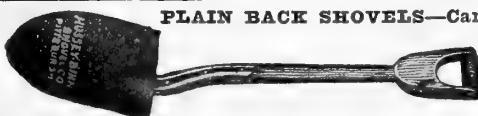
- | | |
|---|--------|
| 512 Gritco—D Handle, Square Point Shovels, Size No. 2.. | \$1.00 |
| 513 Gritco—D Handle, Square Point Shovels, Size No. 3.. | 1.05 |
| 514 Gritco—D Handle, Square Point Shovels, Size No. 4.. | 1.10 |
| 712 Balto.—D Handle, Square Point Shovels, Size No. 2.. | .75 |
| 713 Balto.—D Handle, Square Point Shovels, Size No. 3.. | .80 |
| 714 Balto.—D Handle, Square Point Shovels, Size No. 4.. | .85 |

HOLLOW BACK SHOVELS—Carbon Steel.



- | | |
|---|--------|
| 212 Oriole—D Handle, Square Point Shovels, Size No. 2.. | \$.60 |
| 213 Oriole—D Handle, Square Point Shovels, Size No. 3.. | .65 |
| 214 Oriole—D Handle, Square Point Shovels, Size No. 4.. | .70 |
| 215 Oriole—D Handle, Square Point Shovels, Size No. 5.. | .75 |
| 216 Oriole—D Handle, Square Point Shovels, Size No. 6.. | .80 |

PLAIN BACK SHOVELS—Carbon Steel.



- | | |
|--|--------|
| 532 Gritco—D Handle, Round Point Shovels, Size No. 2.. | \$1.00 |
| 533 Gritco—D Handle, Round Point Shovels, Size No. 3.. | 1.05 |
| 732 Balto.—D Handle, Round Point Shovels, Size No. 2.. | .75 |

PLAIN BACK SPADES.



- | | |
|---|--------|
| 552 Gritco—D Handle Spades, Size No. 2..... | \$1.00 |
| 752 Balto.—D Handle Spades, Size No. 2..... | .75 |

HOLLOW BACK SPADES.



- | | |
|---|--------|
| 252 Oriole—D Handle Spades, Size No. 2..... | \$.75 |
|---|--------|

DITCHING SPADE.



- | | |
|-------------------------|--------|
| 318—18-inch Blade | \$1.50 |
|-------------------------|--------|

DRAIN SPADE.



- | | |
|-------------------------|--------|
| 618—18-inch Blade | \$1.50 |
|-------------------------|--------|

PLAIN BACK SHOVELS—Carbon Steel.



- | No. | Each. |
|---|--------|
| 542 Gritco—Long Handle, Round Point Shovels, Size No. 2.. | \$1.00 |
| 742 Balto.—Long Handle, Round Point Shovels, Size No. 2.. | .75 |

HOLLOW BACK SHOVELS—Carbon Steel.



- | | |
|---|--------|
| 242 Oriole—Long Handle, Round Point Shovels, Size No. 2.. | \$.60 |
| 2—Long Handle, Riveted Back, Round Point Shovels.. | .60 |

PLAIN BACK SHOVELS—Carbon Steel.



- | | |
|--|--------|
| 722 Balto.—Long Handle, Square Point Shovels, Size No. 2.. | \$.75 |
|--|--------|

HOLLOW BACK SHOVELS—Carbon Steel.

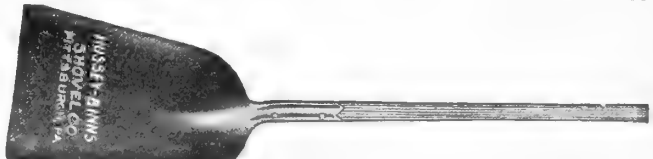


- | | |
|--|--------|
| 222 Oriole—Long Handle, Square Point Shovels, Size No. 2.. | \$.60 |
|--|--------|

HOLLOW BACK SCOOPS.



- | | |
|--|--------|
| 263 Oriole—Long Handle, Eastern Pattern or Coal Scoop, No. 3 | \$.70 |
| 264 Oriole—Long Handle, Eastern Pattern or Coal Scoop, No. 4 | .75 |
| 265 Oriole—Long Handle, Eastern Pattern or Coal Scoop, No. 5 | .80 |
| 266 Oriole—Long Handle, Eastern Pattern or Coal Scoop, No. 6 | .85 |



- | | |
|---|--------|
| 274 Oriole—Long Handle, West. Pattern or Grain Scoop, No. 4 | \$.80 |
| 276 Oriole—Long Handle, West. Pattern or Grain Scoop, No. 6 | .85 |
| 278 Oriole—Long Handle, West. Pattern or Grain Scoop, No. 8 | .90 |

PLAIN BACK SPADES.



- | | |
|--|--------|
| 554 Gritco—Long Handle Spades, Size No. 2..... | \$1.00 |
| 754 Balto.—Long Handle Spades, Size No. 2..... | .75 |

HOLLOW BACK SPADES.



- | | |
|--|--------|
| 254 Oriole—Long Handle Spades, Size No. 2..... | \$.75 |
|--|--------|

SNOW SHOVELS.

- | | |
|--------------------------------|--------|
| Long Handle, Steel Socket..... | \$.50 |
|--------------------------------|--------|

WROUGHT SCREW AGRICULTURAL WRENCHES.



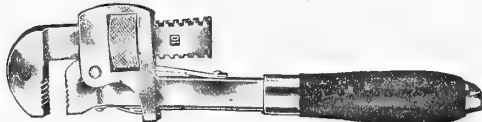
	6 in.	8 in.	10 in.	12 in.	15 in.
Retail price, each.....	\$0.30	\$0.40	\$0.50	\$0.60	\$0.85
List price, per dozen.....	10.00	12.00	14.00	17.00	24.00

MACHINISTS' KNIFE HANDLE WRENCHES.



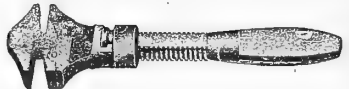
	6 in.	8 in.	10 in.	12 in.	15 in.	18 in.	21 in.
Retail price, each....	\$0.50	\$0.55	\$0.65	\$0.75	\$1.50	\$1.75	\$2.00
List price, doz..	9.00	10.00	12.00	14.00	24.00	30.00	36.00

STILLSON WRENCHES.



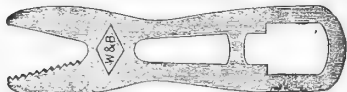
Size..	Grips.	List.	Retail.
6 in.	1/8 wire to 1/2 pipe.	\$2.00	\$.75
8 in.	1/8 wire to 3/4 pipe.	2.00	.75
10 in.	1/8 wire to 1 pipe.	2.25	.85
14 in.	1/4 wire to 1 1/2 pipe.	3.00	1.00
18 in.	1/4 wire to 2 pipe.	4.00	1.30
24 in.	1/4 wire to 2 1/2 pipe.	6.00	2.00
36 in.	1/4 pipe to 3 1/2 pipe.	12.00	4.00
48 in.	1 pipe to 5 pipe.	18.00	6.00

COMBINATION WRENCH.



	List.	Retail.
10—Wire or pipe from 1/4 to 1 in. outside diameter..	\$25.25	\$1.75
12—Wire or pipe from 1/2 to 1 1/4 in. outside diameter	28.50	2.00
15—Wire or pipe from 1/2 to 2 1/4 in. outside diameter	40.50	2.75
18—Wire or pipe from 1/2 to 3 in. outside diameter..	72.00	5.00

"BULLDOG" WRENCHES.



No. 0—Pocket size, 4 in. long.	List price, per dozen, \$3.00.
	Retail price, 15c. each.
No. 1—5 1/4 in. long.	List, per doz., \$4.00. Retail, 20c. each.
No. 1 1/2—5 3/4 in. long.	List, per doz., \$5.00. Retail, 25c. each.
No. 2—9 in. long.	List, per doz., \$12.00. Retail, 60c. each.

"ALWAYS READY" WRENCHES.

Special Steel, Forged, Tempered in Oil.



No. 1—5 in. long.	List price, per doz., \$4.60.	Retail price, 30c. ea.
No. 2—7 in. long.	List price, per doz., \$6.75.	Retail price, 40c. ea.

TWIN WRENCHES.



Twin, 10 in. long.	List, per dozen, \$18.00.	Retail, 75c. each.
--------------------	---------------------------	--------------------

COLD CHISEL.



	1/2 in.	5/8 in.
Retail price, each.....	\$0.10	\$0.15

PUNCH.



	1/2 in.	5/8 in.
Retail price, each.....	\$0.10	\$0.15

GENERAL PURPOSE DROP FORGED STEEL WRENCHES.



For use in erecting or dismantling plows, carriages, wagons, etc., and for general service where a light and long wrench is desired.

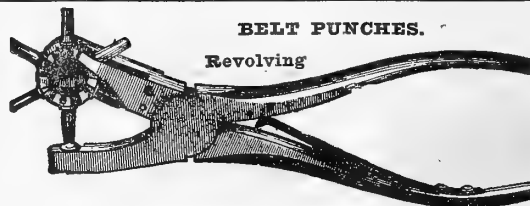
No.	Manufacturers' Standard Nuts, Size Bolts, Inches.	Price, Unfinished, Each.	Price Semi-Finished, Each.	Price Finished, Each.
500	3-16 and 1/4	\$.13	\$.20	\$.26
501	1/2 and 5-16	.17	.25	.34
502	5-16 and 3/8	.22	.33	.44
503	3/8 and 7-16	.28	.42	.56
504	7-16 and 1/2	.34	.51	.68

Finished, per set.....	\$2.45
Semi-Finished, per set.....	1.85
Unfinished, per set.....	1.30

A Set Includes One of Each Above Sizes.

BELT PUNCHES.

Revolving

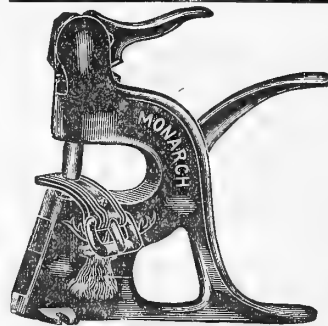


Retail Price, Each, Four-tube Drive, 75c. Six-tube Drive, \$1.00. Single-tube Drive, 40c.

Round



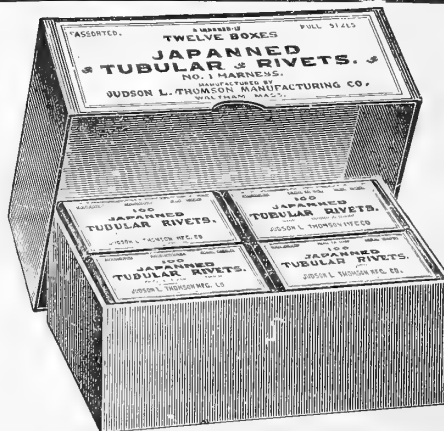
Each.
Nos. 1 to 6, Retail Price, 10c. Nos. 7 to 9, Retail Price, 15c.



MONARCH RIVETING MACHINE.

Upper Lever Adjusts the Machine Instantly; Lower Lever Sets the Rivet.

This is the best low-priced Riveting Machine made. Warranted to set Tubular Rivets perfectly. Price, 50c.



TUBULAR RIVETS.

To be used in Riveting Machine.

Rivets, box of 10015c.

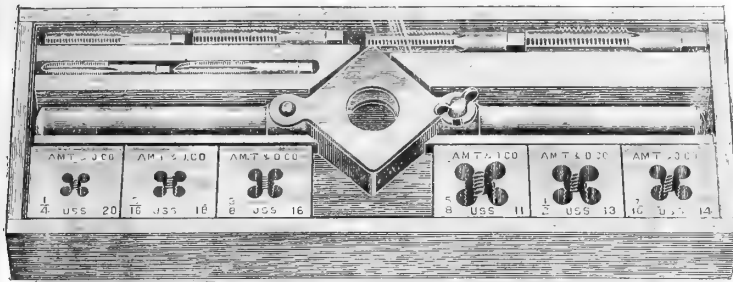
Four boxes, 50c.

RAPID HARNESS MENDERS.

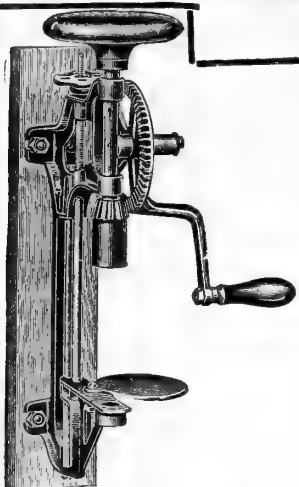


Box15c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



"EAGLE BRAND" SCREW PLATE
 AMT. 100
 CUTTING 1/4 5/16 3/8 1/2 5/8



LUTHER POST DRILL

Luther Post Drills have the feature of higher-priced drills. The frame is built solid, and is well braced. It may be bolted or screwed to a post or an upright, and holds any ordinary Bit Stock Drill. The work is fed by a hand screw at the top, and can be adjusted to suit the quality of work in hand. When a hole is to be bored in any material, it is very handy to have one of these drills at hand, as it avoids many hours' delay, if you had to carry the work to a repair shop. The size of the work which these drills are capable of doing is altogether according to the hardness of the material which is being bored, and the strength of the person doing the work.

Price.....\$3.00



MACHINE BOLTS

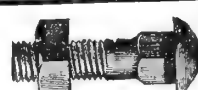
Length, Inches.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.
	1/4	5/16	3/8	1/2				
1 1/2	\$1.70	\$2.02	\$2.00	\$2.40	\$0.02	\$3.60	\$0.02	
1 3/4	1.78	2.12	2.10	2.56	0.02	3.86	0.02	
2	1.86	2.24	2.22	2.72	0.02	4.12	0.02	
2 1/4	1.94	2.36	2.34	2.88	0.02	4.38	0.02	
2 1/2	2.02	2.48	2.46	3.04	0.02	4.64	0.02	
2 3/4	2.10	2.60	2.58	3.20	0.02	4.90	0.02	
3	2.18	2.72	2.70	3.36	0.02	5.16	0.02	
3 1/4	2.26	2.84	2.82	3.52	0.02	5.42	0.02	
3 1/2	2.34	2.96	2.94	3.68	0.02	5.68	0.02	
3 3/4	2.42	3.08	3.06	3.84	0.02	5.94	0.02	
4	2.50	3.20	3.18	4.00	0.02	6.20	0.02	
4 1/4	2.58	3.32	3.30	4.16	0.02	6.46	0.02	
4 1/2	2.66	3.44	3.42	4.32	0.02	6.72	0.02	
4 3/4	2.74	3.56	3.54	4.48	0.02	6.98	0.02	
5	2.82	3.68	3.66	4.64	0.02	7.24	0.02	
5 1/4	2.90	3.80	3.78	4.80	0.02	7.50	0.02	
5 1/2	3.06	4.04	4.02	5.12	0.02	8.02	0.02	
5 3/4	3.20	4.28	4.26	5.44	0.02	8.54	0.02	
6	3.38	4.52	4.50	5.76	0.02	9.06	0.02	
6 1/4				6.08	0.02	9.58	0.02	
6 1/2				6.40	0.02	10.10	0.02	
6 3/4				6.72	0.02	10.62	0.02	
7				7.04	0.02	11.14	0.02	
7 1/4					0.04	11.66	0.04	
7 1/2						12.18		
7 3/4						12.70		
8						13.22		

For Other Sizes Write for Prices.

For Plow Bolts See Page 149.

CARRIAGE BOLTS

Length, Inches.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.
	1/4	3/8	5/16	1/2				
1 1/2	\$1.00	\$0.02	\$1.90	\$0.02	\$1.40	\$0.02	\$3.00	\$0.04
1 3/4	1.04	0.02	1.98	0.02	1.46	0.02	3.00	0.04
2	1.08	0.02	2.06	0.02	1.52	0.02	3.00	0.04
2 1/4	1.12	0.02	2.14	0.02	1.58	0.02	3.00	0.04
2 1/2	1.16	0.02	2.22	0.02	1.64	0.02	3.00	0.04
2 3/4	1.20	0.02	2.30	0.02	1.70	0.02	3.11	0.04
3	1.24	0.02	2.38	0.02	1.76	0.02	3.22	0.04
3 1/4	1.28	0.02	2.46	0.02	1.82	0.02	3.33	0.04
3 1/2	1.32	0.02	2.54	0.02	1.88	0.02	3.44	0.04
3 3/4	1.36	0.02	2.62	0.02	1.94	0.02	3.55	0.04
4	1.40	0.02	2.70	0.02	2.00	0.02	3.66	0.04
4 1/4	1.44	0.02	2.78	0.02	2.06	0.02	3.77	0.05
4 1/2	1.48	0.02	2.86	0.02	2.12	0.02	3.88	0.05
4 3/4	1.52	0.02	2.94	0.02	2.18	0.02	3.99	0.05
5	1.56	0.02	3.02	0.02	2.24	0.02	4.10	0.05
5 1/4	1.61	0.02	3.18	0.02	2.36	0.02	4.32	0.05
5 1/2	1.72	0.02	3.34	0.02	2.48	0.02	4.54	0.05
5 3/4	1.80	0.02	3.50	0.02	2.60	0.02	4.76	0.05
6	1.88	0.02	3.66	0.02	2.72	0.02	4.98	0.05
6 1/4	1.96	0.02	3.82	0.02	2.84	0.02	5.20	0.05
6 1/2	2.01	0.02	3.98	0.02	2.96	0.02	5.42	0.05
6 3/4	2.12	0.02	4.14	0.02	3.08	0.02	5.64	0.05
7	2.20	0.02	4.30	0.02	3.20	0.02	5.86	0.05
7 1/4	2.28	0.02	4.46	0.02	3.32	0.02	6.08	0.05
7 1/2	2.36	0.02	4.62	0.02	3.44	0.02	6.30	0.05
7 3/4	2.52	0.02	4.94	0.02	3.68	0.02	6.74	0.05



BIT STOCK DRILLS

FOR METAL OR WOOD, No. 109



Diameter.	List Price, per dozen.	Retail Price, per dozen.	List Price, Each.	Retail Price, Each.
1/2	\$1.50	\$0.75	\$0.14	\$0.07
3/4	1.65	.85	.16	.08
1	2.10	1.05	.20	.10
1 1/4	2.60	1.30	.24	.12
1 1/2	3.10	1.55	.29	.15
1 3/4	3.60	1.80	.33	.18
2	4.10	2.05	.38	.20
2 1/4	4.70	2.35	.43	.25
2 1/2	5.40	2.70	.48	.26
2 3/4	6.30	3.15	.54	.27
3	7.20	3.60	.62	.31
3 1/4	8.00	4.00	.68	.34
3 1/2	9.60	4.80	.82	.41
3 3/4	10.30	5.15	.87	.45
4	14.35	....	1.20	.60
4 1/4	16.15	....	1.35	.65
4 1/2	19.75	....	1.65	.85

These Drills will fit any brace on the market. Will drill steel, iron or other metals as well as wood. Will bore any kind of wood without splitting.

EAGLE SCREW PLATE

This screw plate is made especially for the farmer. It is made from the best material, and will be found one of the handiest tools on the farm. All bolts that have become bruised can be rethreaded in a minute, and save lots of time and worry. Can also be used for threading iron rods, which may be used for many purposes. The sizes run 1/4-in., 5-16-in., 3/8-in., 1/2-in. and 5/8-in. These are the sizes generally used. Taps and dies are both included in the price, and the whole outfit is packed in a nice wooden box.

Price.....\$6.50.

SILVER & DEMING DRILLS



No. 112. SHORT LENGTH.

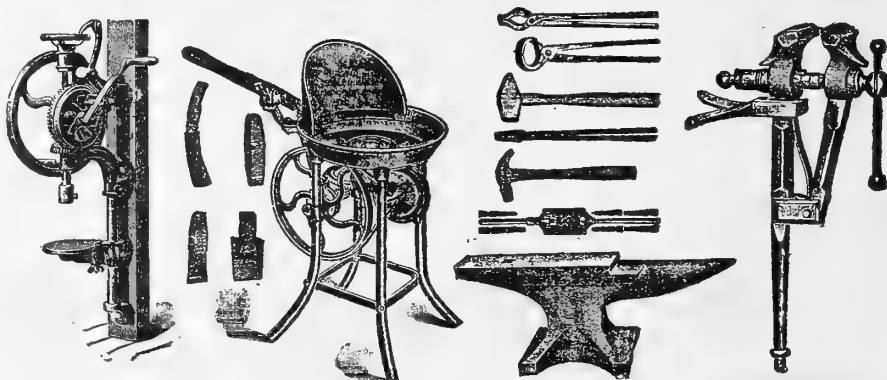
Fitting Boynton & Plumer and Silver & Deming Blacksmith's Drill Presses, Nos. 1 and 2, with shanks 1/2-inch diameter.

Diam.	Length in.	List Pr. ea.	Retail Pr. ea.	Diam.	Length in.	List Pr. ea.	Retail Pr. ea.
1-8	4 1/2	\$0.45	\$0.23	13-16	6	\$1.35	\$0.67
5-32	4 1/2	.48	.24	27-32	6	1.40	.70
3-16	5 1/2	.50	.25	7-8	6	1.45	.73
7-32	5 1/2	.55	.28	29-32	6	1.50	.75
1-4	6	.60	.30	15-16	6	1.60	.80
9-32	6	.65	.33	31-32	6	1.70	.85
5-16	6	.70	.35	1	6	1.80	.90
11-32	6	.73	.36	1 1-32	6	1.90	.95
3-8	6	.75	.37	1 1-16	6	2.00	1.00
13-32	6	.78	.39	1 3-32	6	2.10	1.05
7-16	6	.80	.40	1 1-8	6	2.20	1.10
15-32	6	.83	.41	1 5-32	6	2.25	1.13
1-2	6	.85	.43	1 3-16	6	2.30	1.15
17-32	6	.88	.44	1 7-32	6	2.35	1.18
9-16	6	.90	.45	1 1-4	6	2.40	1.20
19-32	6	.95	.48	1 9-32	6	2.50	1.25
5-8	6	1.05	.53	1 5-16	6	2.60	1.30
21-32	6	1.10	.55	1 11-32	6	2.70	1.35
11-16	6	1.15	.58	1 3-8	6	2.80	1.40
23-32	6	1.20	.60	1 13-32	6	2.90	1.45
3-4	6	1.25	.63	1 7-16	6	3.00	1.50
25-32	6	1.30	.65	1 15-32	6	3.10	1.55
				1 1-2	6	3.20	1.60

The above drills have shanks 2 1/4 inches long and 1/2 inch diameter.

G. & T. Co.'s Farmers' Handy Outfit of Blacksmith's Tools

Consists of the following: 1 100-LB. EAGLE STEEL FACE ANVIL, 1 35-LB. WROUGHT IRON SOLID BOX BLACKSMITH'S VISE, 1 (Fig. 731) 80-LB. DOUBLE GEARED SELF-FEED HAND POST DRILL, with 8 drills, $\frac{1}{8}$ to $\frac{3}{4}$ " ; 1 (Fig. 915) PORTABLE FORGE, 30" high, 22" hearth, 9" fan. Fireplace separate from hearth, which saves breakage in expansion and shrinkage, heats 2" diameter iron to welding heat, has ball-bearing shaft; one set of stocks and dies to cut $\frac{1}{8}$ to 3-16", 1 $\frac{3}{8}$ " hot cutter, 1 $\frac{1}{8}$ " cold cutter, 1 hardie, 1 2-lb. blacksmith's hand hammer, 1 20" straight lip tongs, 1 20" bolt tongs, 1 14" pincers and 1 IXL Farrier's Knife.



SPECIAL PRICE ON COMPLETE OUTFIT AS DESCRIBED, \$40.00.
OUTFIT AS ABOVE, BUT WITH 85-LB. ANVIL AND (FIG. 930) FORGE, \$34.00.

Portable Forges

Fig. No. 907 (cut below).—Height, 30"; hearth, 29" x 46"; fan, 15" diameter. List, \$50.00; Our Special Price, \$22.50. With Water Tank, List, \$55.00; Our Special Price, \$27.50.

Fig. 915—As illustrated and described with outfit of Blacksmith's Tools. List, \$24.00; Our Special Price, \$10.00.

Fig. 930—Similar to Fig. 915, but with 18" hearth (not separate) and 8" fan. List, \$14.00; Our Special Price, \$5.75.

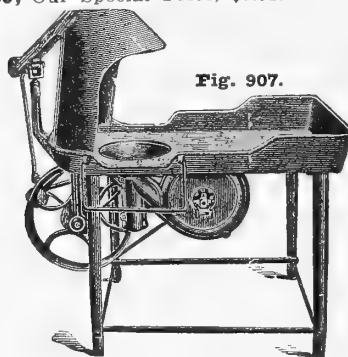


Fig. 907.

FIG. 731—NO. 1 DRILL PRESS.

Floor space over all, 9x16 inches; total height, 37 inches; upright column, 1 1/2 inches diameter; drive gear wheel, 8 inches diameter; table, 6 inches diameter; greatest distance from spindle to table, 10 1/2 inches; fly-wheel diameter, 14 1/2 inches. Has extension crank and adjustable feed. Uses 1/2-inch straight shank drills. Each, \$6.25. For prices of drills, see page 144.

IXL FARRIER'S KNIVES.

Each 50c.

BLACKSMITH'S TONGS.

Straight Lip, 20 inches. Each 25c.

Round Jaw or Bolt, 20 inches. Each 35c.

BLACKSMITH'S PINCERS.

14 inches. Each 75c.

BLACKSMITH'S HAND HAMMERS.

No. 191—2 lbs., with Handle. Each 50c.

FARRIER'S HAMMERS.

No. 160—Each 50c.

STOCKS AND DIES.

No. 37—Cuts 5/8-inch to 3-16-inch right hand; 14, 16 and 18-inch threads to the inch; 6 taps and 3 sets dies. Each, \$3.00.

BLACKSMITH'S HARDIES.

No. 18—Shank, 7/8 inch. Each 40c.

BLACKSMITH'S HOT CHISELS.

No. 6—Each 40c.

BLACKSMITH'S COLD CHISELS.

No. 5—Each 40c.

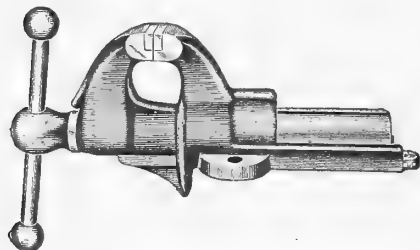
SOLID BOX VISES.

No. 35—Width of Jaw, 4 inches. Each \$4.75

ANVILS.

Eagle cast-steel with steel face, 100 lbs. Per lb. 10c.

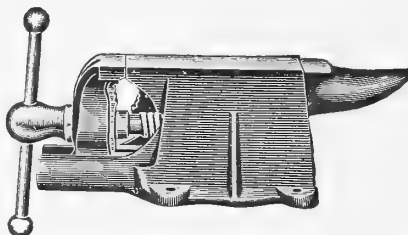
Rock Island Oval Slide Vise



A superior vise in this style. Has tool steel jaws.

No.	Size	Opens	Weight	List Price	Retail Price
361	2 1/2 in.	3 3/4 in.	8 lbs.	\$2.50	\$1.25
362	3 in.	4 in.	14 lbs.	3.00	1.50
363	3 1/2 in.	4 1/2 in.	22 lbs.	4.75	2.40
364	4 in.	4 1/4 in.	30 lbs.	6.50	3.25

Rock Island Anvil Vise

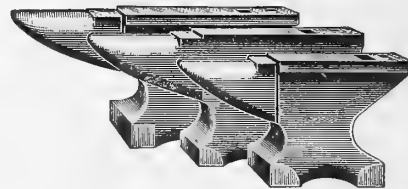


Anvil and vise combined, with jaws for holding pipe.

This vise is intended only for light work. This is the best finished vise of this type on the market. Has steel screw with cut threads, steel nut, and cold-rolled steel handle. Anvil and all finished parts highly polished and lacquered.

No. 380—Width jaw, 3 inches; opens 5 inches; weight, 26 pounds. Retail Price, \$1.50.

ANVILS



These anvils are ideal for farm and shop use.

Eagle cast steel with steel face. 100 lbs., per lb., 10c.

Rock Island Semi-Steel, 50 lbs., 75 lbs., 100 lbs., per lb., 4 1/4 c.

Rock Island Steel Beam Swivel Vise

No.	List Price	Retail Price
No. 341.....	\$2.25	\$1.60
No. 342.....	2.65	1.85
No. 343.....	3.00	2.10
No. 344.....	4.50	3.15

OIL CANS

We Carry in Stock a Full Line of Oil Cans for All Kinds of Farm Machinery For Harvester and Other Oils, See Page 165

No. 1100.
 Straight
 Spout.
 No. 1101.
 Bent spout.
 They have
 large open
 mouths, and
 can be easily
 filled without
 a funnel.



**Price,
 each,
 10c.**

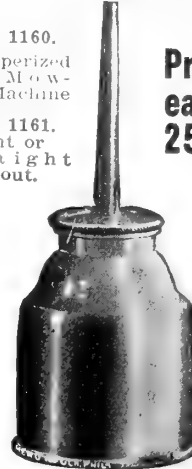
ROUND

No. 698.
 Bent or
 Straight
 Stem.



**Price,
 each,
 10c.**

No. 1160.
 Copperized
 Steel Mow-
 ing Machine
 Oilier.
 No. 1161.
 Bent or
 Straight
 Spout.



**Price,
 each,
 25c.**

**TIN
 ENGINEERS'
 OILERS**

Prices:
 1 pint.....30c.
 1 quart....35c.



**Price,
 each,
 25c.**

No. 945.
 Bent or
 Straight
 Spout.

WILLIAMSON'S FUNNELKAN

By omit-
 ting the
 nozzle
 you have
 a large
 spout for
 heavy oil.



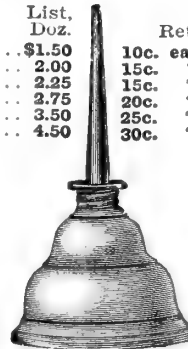
**GRITCO
 Enameled
 Red, 10c.**



No. 701.
 Copper-
 plated Steel
 Mowing Ma-
 chine Oilers.
 15c. each.

Chace Zinc Oilers

No.	List, Doz.	Retail.
1.....	\$1.50	10c. each.
2.....	2.00	15c. "
3.....	2.25	15c. "
4.....	2.75	20c. "
5.....	3.50	25c. "
6.....	4.50	30c. "



SEWING MACHINE, No. 29B

**FIRST-CLASS MACHINE FOR LITTLE MONEY.
 STANDARD FOR QUALITY, SELLS ON ITS MERITS ALONE**

Very light running.
 A beautiful piece of
 furniture. Specifi-
 cations: **Lift**, automa-
 tic; **Drop head**; four
 drawers; automatic
 drawer lock. **Stand**,
 ribbon pattern; full
 ball - bearing; ball-
 bearing and steel pit-
 man; extra broad
 treadle; belt guard to
 protect skirt. Spool-tray to
 fit drawers. **Attachments**,
 1 Tucker, 1 Ruffler with
 shirring plate, 1 Hemmer
 set (4 widths) and binder,
 1 Braider, 1 Thread Cut-
 ter, 1 Quilter, 1 Hemmer
 (which is also a feller).
 Also furnished free—1 Oil
 Can (filled), Gauge, 1
 gauge screw, 1 Combina-
 tion Screw Driver, 6 Bob-
 bins and 1 Package Nee-
 dles, 1 Instruction Book (in 5 languages). **Winning Features:**
High Arm, Capped Needle Bar and Pressure Foot Bar, Four
Motion Feed, Side-disk Tension, Automatic Tension Release,
Positive take-up, Automatic Bobbin Winder, Self-threading
Shuttle. Weight, crated, 125 pounds. Our Special Price, \$30.00.



STYLE No. 60, NEW MODEL

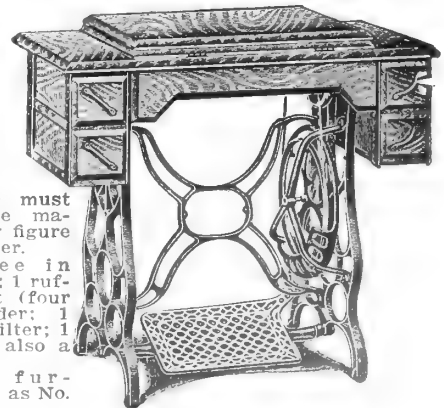
By no means a
 cheap affair as far
 as material, con-
 struction, etc., are
 concerned, but
 high-grade in every
 respect. Particu-
 larly light run-
 ning.

No. 60 New
 Model represents
 the best value ob-
 tainable; one who must
 have a serviceable ma-
 chine at a very low figure
 need not look further.

Attachments free in
 metal box: 1 tucker; 1 ruf-
 fler; 1 hemmer set (four
 widths), and binder; 1
 thread cutter; 1 quilter; 1
 hemmer (which is also a
 feller).

Free accessories fur-
 nished are the same as No.
 29B.

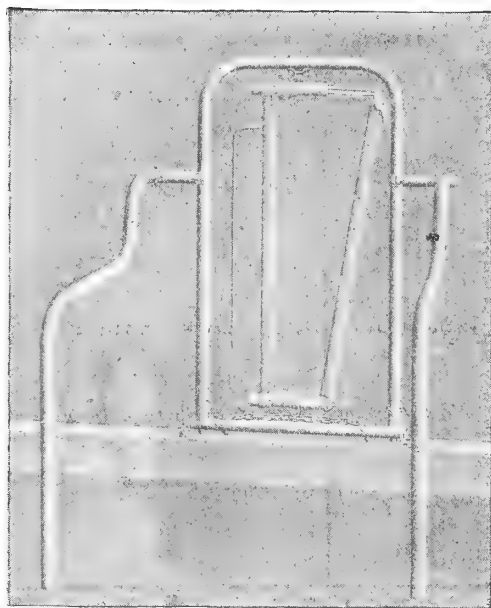
Weight, crated, 110 lbs.



Our Special Price, \$20.00.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

STAR TUBULAR STEEL BARN EQUIPMENT

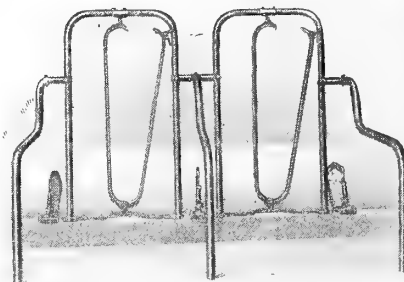


Star Barn Equipment stands for clean barns, healthy cattle, reduced labor and larger profits. It is a milestone in the progress of modern dairying. The milk companies supplying large cities are being formed to demand sanitary conditions in the barns of milk producers. This means that steel and cement construction will be in all dairy barns before long.

Dairy barns are being equipped with Star fixtures, not only because of sanitary features, which are now being insisted upon by the large milk companies, but because they save labor and add to the profits. By eliminating the disagreeable features of barn work, it is easier to keep the cows clean and more comfortable. It is the clean, comfortable cow that pays. Star equipment was designed to make dairy barns sanitary. It answers the demands of sanitation in full measure, but the greatest benefit is that it saves time and labor, prevents the waste of feed and by increasing both quality and quantity of the milk, adds to the money profits. It enables you to keep your barn cleaner, and with less effort, and at the same time pays

for itself in the feed it saves, and in the increased production of the herd.
No. 1 Adjustable Steel Stall, with 9-inch adjustment; made of 1½-inch steel tubing, bent cold; with Giant or Boss, wood lined, adjustable steel stanchion and sure-stop; finished in grey enamel and assembled before shipment... **\$7.10**
Same, without sure-stop..... **6.60**

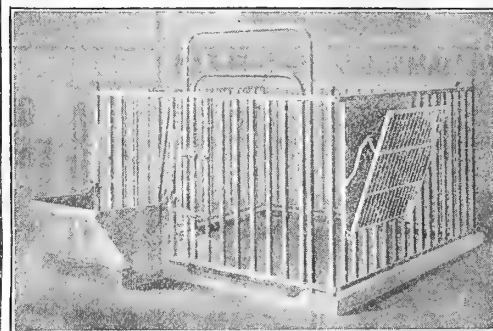
STALL UNIT No. 520--Non-adjustable



Comprising No. 1 Non-adjustable Stall, fitted with No. 434 Adjustable Steel Stanchion of U bar construction. Swivel at the top and double chain hanging at the bottom, giving the cow perfect freedom.

Price per Stall, without Manger Partition... **\$5.40**
Price per Stall, with Manger Partition..... **7.15**

STAR BULL PEN.



The first requirement of a bull pen is strength. The Star Pen is built accordingly. Top and bottom rails are of rectangular tubing; size, 1½ x 2½ inches. Uprights of 1½-inch O. D. round tubing are placed 6 inches apart on center with ends inserted in the top and bottom rails. This does away entirely with clamp irons; leaves the rails free of all obstructions.

Double arched construction of gate prevents it from sagging. The gate hangs on offset hinges. When open, it swings back flat against the pen. The double pin Hall Safe pattern lock, locks automatically when the gate is slammed shut. It is unlocked by turning a wheel, and cannot possibly be unlocked by accident.

Star Bull Pen, 5½ feet high; weight, per foot, 30 lbs., price, per foot..... **\$2.00**
Gate fittings, per set..... **\$5.00**
Rigid stanchion to hold bull while cleaning pen..... **\$3.00**
Self-cleaning manger, fitted with springs to hold it up..... **\$5.00**
Open-back hay rack, price..... **\$5.25**

STAR COW PEN

Weight per foot, 20 lbs.
Price, per lineal foot..... **\$1.90**
Price of gate fittings, per set..... **3.00**

Star cow pen may be provided with self-cleaning sanitary lifting manger. Weight, 60 lbs. Price..... **\$5.00**
Rigid wood-lined stanchion for cow pen..... **\$3.00**

Open back hay rack, size, 36x36 inches; weight 42 lbs. Price..... **\$5.25**

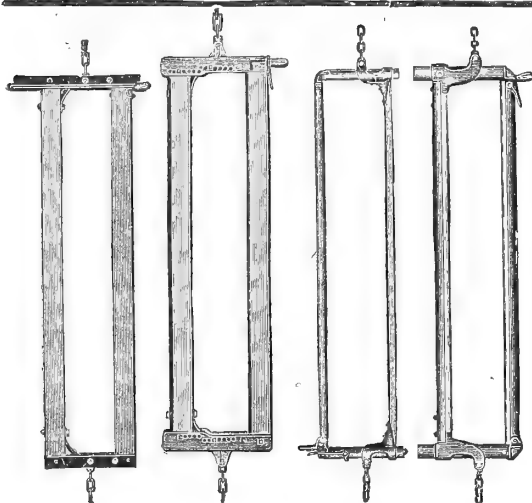
STAR CALF PEN

Weight per ft., 15 lbs. Price, per ft., including calf stanchions, **\$1.70**. Finished in grey enamel.

Stanchions

No. 486 Giant Wood-Lined Stanchion—This stanchion is without a doubt the best stanchion made. The Giant Lock, that can be opened with one hand, and the guide, that insures perfect locking, and that takes all possible strain off the hinge; the wood lining that is pressed into the U-bar steel sides, are exclusive features that go to make it the best stanchion made. It is also adjustable, and can be closed to hold a calf, or opened wide enough to hold a bull. This is accomplished by the use of a screw driver without taking the stanchion from the stall.

Price..... **\$2.10**



No. 243 No. 452 No. 434 No. 486

No. 434 Adjustable Steel Stanchion, has all the advantages of other makes, with the added advantage of being adjustable in width of neck space. It is made of High Carbon U Steel, of sufficient strength to hold the heaviest dairy cow; can also be adjusted to hold a calf.

Price..... **\$1.40**

No. 434W Adjustable Wood-Lined Stanchion; same as the No. 434, but has Wood Lining. This lining is pressed into the U bars, and will never come out.

Price..... **\$1.75**

No. 452 Star Adjustable Wood Stanchion—Our Adjustable Wood Stanchion with malleable latch meets all the requirements of those desiring a perfect wood stanchion with adjustable features. The latch is automatic in operation, one piece malleable iron and no springs.

Price..... **\$1.50**

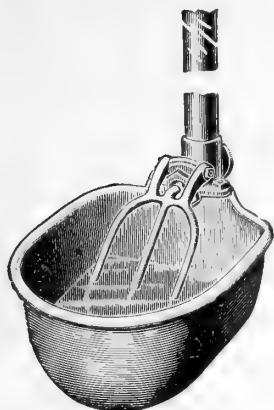
No. 243 Star Non-Adjustable Wood Stanchion. The uprights are made of strong wood, the cross pieces at top and bottom are made from angle steel. The lock is automatic, and is fitted with guide, which relieves all strain on the hinge.

Price..... **\$1.00**

If Sure Stop is wanted on the Nos. 486, 434 or 434W Stanchion, add 50c. to the above prices.

Stanchions come chain or swivel hung. Chain hung always sent, unless otherwise specified.

STAR WATER BOWLS



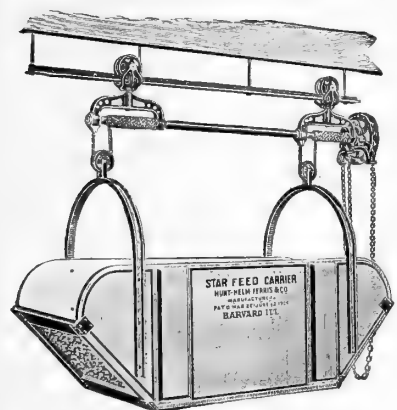
Star Sanitary Water Bowls will quickly return their cost. Tempered water given the cow in the stall is more relished than icy water from the trough in the unsheltered barnyard. In this way Star Water Bowls cut out the winter slump in the production of milk.

Star Water Bowls are individual. The only water that can get in is fresh water that comes through the supply pipe. The valve is opened by pressure on the leaf which hangs into the bowl at an angle. The cow can see the water in the bowl; doesn't have to learn to drink; doesn't suck up air while drinking, and is in no danger of injury. The valve lever or leaf can be raised while the bowl is being cleaned.

Valve is easily removed and replaced if necessary. Pipe connections can be made from either above or below.

Bowl is cast in one piece with rolled edges and no seams or corners. It is as easy to keep clean as a china teacup.
Each\$2.00

STAR FEED CARRIER



STAR FEEDER CARRIER Fig. 334

A feed truck or carrier will save lots of time and work.

The overhead carrier has the same tub as the feed truck. This is suspended from the conveyor at four points and the main shaft as well as the large parallel tracker wheels are roller bearing throughout. This makes an easy-running and easy raising and lowering carrier.

The carrier is for rigid carrier track.
Price,\$25.35

STAR LITTER CARRIER FOR RIGID TRACK

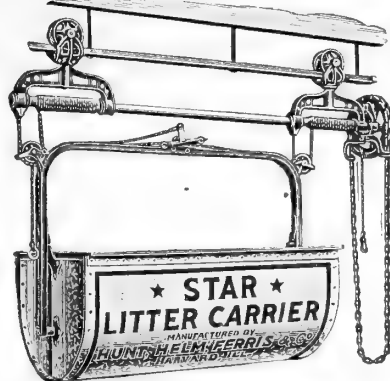


Fig. 333

The carrier pictured above is the fastest and easiest raising and lowering carrier made. The main shaft is supported at four points, all roller bearing, and the large drive wheel fitted with an endless chain is attached directly to it, no gearing or cogs to become worn or loose. Its very simplicity commends it to the man of practical mechanical knowledge, as there is nothing about it to get out of repair.

The large tracker wheels are roller bearing and run on a rigid track. It runs easy.

This, like all Star Carriers, has a rigid bail which holds the tub in shape and insures perfect working of the locks at both ends.

The tub is of heavy galvanized steel, reinforced with angle bars.

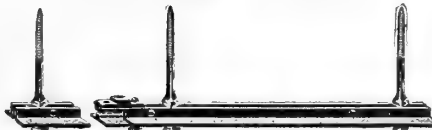
With No. 2, 6 bu. Tub, wt., 80 lbs., price, **\$21.35**

With No. 4, 8 bu. Tub, wt., 90 lbs., price, **\$22.70**

With No. 6, 10 bu. Tub, wt., 100 lbs., price, **\$24.00**

With No. 8, 12 bu. Tub, wt., 130 lbs., price, **\$25.35**

TRACK AND FIXTURES



The rigid double angle track lends the same ease of operation to all Star Carriers.

Star track is rigid and will not bend or buckle. It will support the heaviest load. Price, per foot, with splices, **\$0.12**. Weight, per foot, 2 lbs.

By means of the lag screw hanger Fig. 414 the track may be adjusted to perfect level, even if the joists do not hang evenly. These hangers are made in several lengths.

10 1/4-in., per doz., av. wt., 3 lbs., price, **\$1.35**

15 1/4-in., per doz., av. wt., 4 1/2 lbs., price, **1.70**

17 1/4-in., per doz., av. wt., 5 lbs., price, **1.90**

19 1/4-in., per doz., av. wt., 5 1/2 lbs., price, **2.15**

21 1/4-in., per doz., av. wt., 6 lbs., price, **2.35**

SWITCHES AND CURVES



Above illustration shows a two-way self-supporting switch. It is perfect in operation, being shifted to right or left by simple pull of the chain.

It locks into position automatically and is fitted with automatic guards which prevent the carrier from running off the open switch.

Two-way Switch, weight 26 lbs., as illustrated, price, each, **\$4.00**

Three-way Switch, similar to above, weight, 29 lbs., price, each, **\$4.70**

Curves for Star Double Angle Steel Track are made on 4-foot radius, each curve takes the place of eight feet of track. Weight, 12 lbs. Price, each, **\$1.65**

STAR SWINGING BOOM



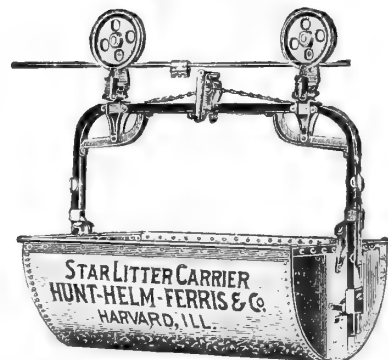
Fig. 472

Where the Star Swinging Boom is used to support Litter Carrier Track outside the barn, there are no posts or braces to obstruct the barnyard; everything is up out of the way.

Star Swinging Boom is of heavy 2 x 2-inch galvanized steel angles, firmly clamped together.

Price of Boom	15 ft.....	\$15.00
Complete	20 ft.....	18.00
with Hangers and Track	30 ft.....	24.00
	35 ft.....	27.00
	40 ft.....	30.00

STAR ROD TRACK CARRIER No. 405



These carriers dump either way at any desired point where the trip is set, and return automatically to the barn.

The carrier, Fig. 405, shown above, is the most practical made. Rigid bail, heavy all steel reinforced tub and all the features noted above with No. 2 Tub. Price, **\$16.00**.

Shipping weight, 110 lbs.

SPRING TRACK SUPPORT

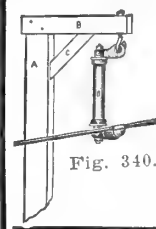


Fig. 340.

Fig 240 illustrates the Spring Track Support. When rod tracks of more than 12 1/2 feet in length are used we recommend the use of one Spring Track Support for every additional 50 feet of track. Weight, each, 8 1/4 lbs. Price **\$2.00**

ROD TRACK SWITCH

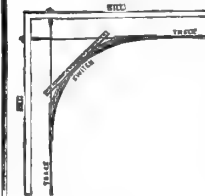
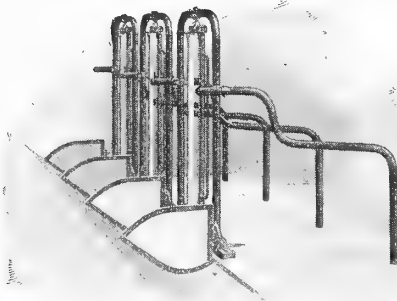


Fig. 354.

In Fig. 354 is shown the best rod track switch ever devised. Our switches operate equally well on right hand or left hand switches, and can be readily placed in either position. Weight, 25 lbs. Price, **\$2.70**

MANGER PARTITIONS NO. 515



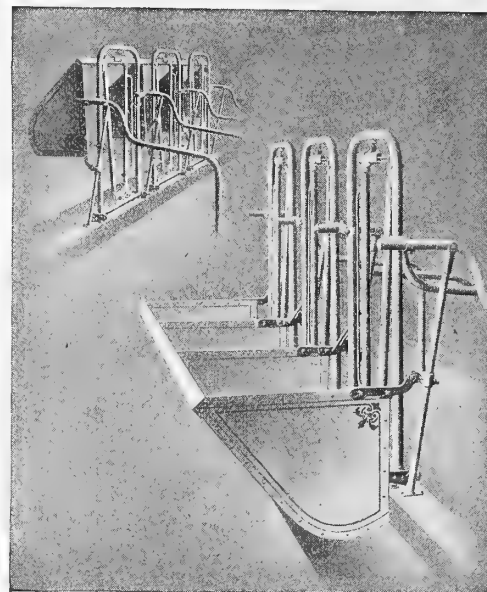
The Manger Partitions with which this Stall is fitted are of heavy steel plate. They are used with concrete mangers, and prevent the cows from stealing each other's feed. This gives the slow eaters an even chance. They may be used with any of our Stalls, and are not merely raised, but are tipped back out of the way while feed manger is being cleaned.

Price, each\$1.75

Star Self-Cleaning Sanitary Steel Mangers

Star Self-Cleaning Mangers give each cow an individual feed box. They prevent a cow from stealing her neighbor's feed. They give the slow feeders a chance. Each cow eats just what you give her. The manger prevents the spilling and wasting of feed. There is no bottom to this manger. It fits into a concrete trough, and is raised and held in place by strong springs while the trough is being cleaned. Template to shape cement manger trough sent with each shipment of mangers.

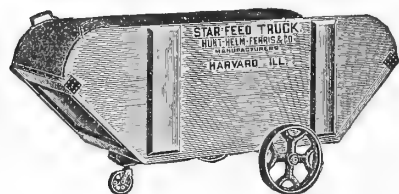
Mangers, per stall; weight, 50 lbs. Price, each.....\$3.50



STAR FEED TRUCK

No. 443

Shipping Weight,
200 Lbs.

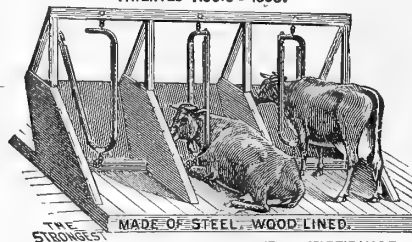


The **STAR TRUCK** is so balanced on the wheels that it may be easily run, and can be turned around in its own space. It is 68x26 inches, and is 24 inches high. It holds 14 bushels. Sides of hardwood. Bottom and ends of heavy galvanized iron. Both ends slant to make unloading easy.

Price\$15.00

THE BOYLE-TAYLOR STEEL STANCHIONS

PATENTED AUG. 9TH 1898.



MADE OF STEEL, WOOD LINED.
THE STRONGEST
MOST COMFORTABLE AND CLEANEST CATTLE MADE.

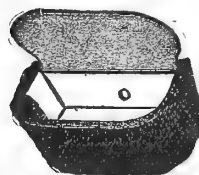
The frame of these stanchions is made of 1 1/4-inch angle steel, lined with wood, and with malleable iron fittings, making a very strong and practically indestructible stanchion, and at the same time a stanchion which is light and comfortable. It is swung on chains at top and bottom, and permits the cow a free and natural movement of the head and neck. No. 1—Regular Size, \$1.50 each. No. 2—Larger Neck Space, \$2.00.

BOYLE STEEL STALLS

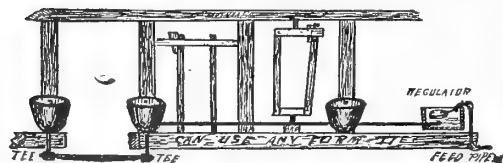
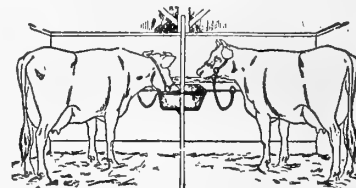
Special Booklet of Boyle Complete Stalls Furnished on Application.

COW BOWLS OR WATER BOXES

With the installation of improved cow stable equipment, these cow bowls, with automatically regulated supply, are being extensively used. A watering device of this kind should be in every stable.



	List Price,	Our Price,	List Price,	Our Price,
	Plain.	Plain.	Porcelain.	Porcelain.
New Oval Bowl, 12x7 1/4 ins., 7 ins. deep, 2 gal., weight 11 1/2 lbs....	\$1.80	\$1.50	\$2.10	\$1.85
Large Oval Bowl, 18x9 ins., 8 ins. deep, 3 1/2 gal., weight 23 lbs....	2.30	2.00	2.60	2.25
Round Bowl, 10 1/2 ins. diameter, 8 ins. deep, 2 gal., weight 11 lbs..	1.60	1.25	1.80	1.50
Round Bowl, 12 3/4 ins. diam. 7 1/2 ins. deep, 3 gal., weight 15 1/2 lbs.	1.80	1.50	2.00	1.75



Showing Pipe Fastened Back Side to Stanchion—also how to drop under passage way.



	List Price.	Our Price.
2-gal. lids for round bowls	\$.20 Each.	\$.20 Each.
3-gal. lids for round bowls .....	.30 Each.	.30 Each.
2-gal. lids for oval bowls .....	.30 Each.	.30 Each.
3 1/2-gal. lids for oval bowls.....	.40 Each.	.40 Each.
Large Regulator (complete), 28x10x9 ins. deep, weight 34 lbs.....	8.00	6.50
All tapped for 1-in. pipe.		
Galvanized Water Pipe, 1-in., with 3/4-in. upright, per stall.....	1.00	.75
State whether holes to be tapped in bottom or side.		

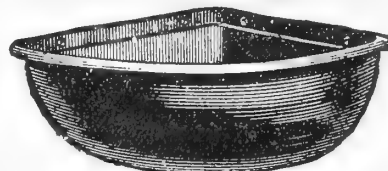
GALVANIZED STEEL STOCK TROUGHS



These troughs will not rust or corrode, and will not damage by freezing.

Length.	Width.	Capacity.	Weight.	Price.
4 ft.	16 in.	24 gals.	75 lbs.	\$5.00
6 ft.	16 in.	36 gals.	95 lbs.	6.90
8 ft.	16 in.	48 gals.	115 lbs.	9.20
10 ft.	16 in.	60 gals.	135 lbs.	11.50
12 ft.	16 in.	72 gals.	155 lbs.	13.80
14 ft.	16 in.	84 gals.	175 lbs.	16.10
4 ft.	20 in.	40 gals.	100 lbs.	6.00
6 ft.	20 in.	60 gals.	125 lbs.	8.40
8 ft.	20 in.	80 gals.	150 lbs.	10.40
10 ft.	20 in.	100 gals.	170 lbs.	13.00
12 ft.	20 in.	120 gals.	195 lbs.	15.60
14 ft.	20 in.	140 gals.	220 lbs.	18.20
6 ft.	20 in.	84 gals.	155 lbs.	10.00
8 ft.	24 in.	112 gals.	185 lbs.	11.60
10 ft.	24 in.	140 gals.	215 lbs.	14.50
12 ft.	24 in.	168 gals.	240 lbs.	17.40
14 ft.	24 in.	196 gals.	270 lbs.	20.30

CAST-IRON CORNER MANGERS.



No. 1—16-in. long, 16 in. wide, 9½ in. deep, flat front. Price, \$1.25.
No. 2—17 in. long, 17 in. wide, 10 in. deep, roll front. Price, \$1.50.

Special Prices in Quantities.

CORNER MANGERS.

The "Sanitary."

The rim is made of a superior quality of iron. The body of galvanized wrought steel. The Government is using these "Sanitary" Mangers in preference to any other. No. 2—22 quarts, \$1.60.

Special Price in Quantities.

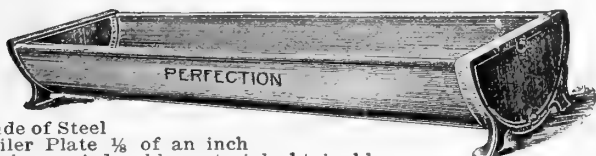
WROUGHT HAY RACKS.

Far superior to cast-iron Racks, as frequently used. Price, \$1.75.

WROUGHT IRON HAY RACK



RIVETLESS STEEL STOCK TROUGH.



Made of Steel Boiler Plate ¼ of an inch thick; most durable material obtainable. Half Round, which gives them strength; also rendering them easy to clean.

No.	Length.	Width.	Depth.	Capacity.	Price.
No. 2.	4 ft.	18 in.	9 in.	28 gals.	\$4.50
No. 2.	5 ft.	18 in.	9 in.	35 gals.	5.65
No. 2.	6 ft.	18 in.	9 in.	42 gals.	6.75
No. 2.	8 ft.	18 in.	9 in.	56 gals.	9.00
No. 2.	10 ft.	18 in.	9 in.	70 gals.	11.25
No. 2.	12 ft.	18 in.	9 in.	84 gals.	13.50
No. 2.	14 ft.	18 in.	9 in.	98 gals.	15.75
No. 3.	4 ft.	20 in.	10 in.	36 gals.	5.10
No. 3.	5 ft.	20 in.	10 in.	45 gals.	6.40
No. 3.	6 ft.	20 in.	10 in.	54 gals.	7.65
No. 3.	8 ft.	20 in.	10 in.	72 gals.	10.20
No. 3.	10 ft.	20 in.	10 in.	90 gals.	12.75
No. 3.	12 ft.	20 in.	10 in.	108 gals.	15.30
No. 3.	14 ft.	20 in.	10 in.	126 gals.	17.85

GALVANIZED HOG TROUGHS.

Width, 10 in.; depth, 5 in.; and the lengths, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 12 feet. The capacity is 2 gallons per running foot. WITH ROLLED EDGE, PER FOOT.....55c.



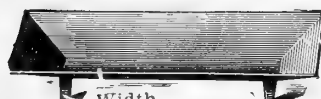
IRON HOG TROUGHS.

Heavy Cast-Iron Hog Troughs.

No danger of them bursting in winter. Twelve inches wide at the top, 2 inches wide at the bottom and 7 inches deep. Made in lengths from 2 feet up to 12 feet, every 12 inches. Weighs 19 pounds to the foot. Price, 55c. per foot.

We also carry in stock a lighter weight trough like the one illustrated above. Price, per foot, 45c.

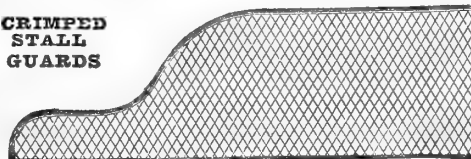
In addition to the square trough illustrated above, we have the cast-iron round-bottom style, which will not burst from freezing. Price, per foot, 45c.



IRON POULTRY TROUGHS.

No.	Width Top.	Depth.	Length.	Weight.	Price.
1W	3½ in.	1½ in.	7½ in.	3 lbs.	\$.25
5W	3½ in.	1½ in.	19 in.	6½ lbs.	.40
6W	6½ in.	2¾ in.	22 in.	12 lbs.	.80
9W	6¾ in.	2¾ in.	29 in.	18 lbs.	1.00

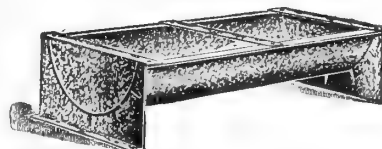
CRIMPED STALL GUARDS



2½-inch diamond mesh, No. 8 steel wire, with 1-inch channel iron frames. O. G. end, oval-banded top, screw holes, bottom and end. Six feet long, 25 inches high.

Price, each, \$4.00. Square Crimped Wire Stall Guards, used for box stalls. Give size wanted. Per square foot, 50c. Square Crimped Wire Stall Guards over 25 in. wide. Per square foot, 60c.

FAVORITE GALVANIZED HOG TROUGHS.



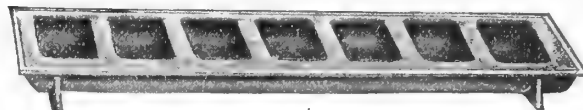
Made of No. 20 gauge galvanized steel throughout. Handy, easily cleaned; light, yet very strong. Twelve inches wide, five inches deep.

No.	Length.	Width.	Weight.	List Price.	Our Special Price.
No. 804	4 ft.	14 in.	14 lbs.	\$2.60	\$1.60
No. 805	5 ft.	17 in.	17 lbs.	3.00	2.00
No. 806	6 ft.	20 in.	20 lbs.	3.40	2.25
No. 807	8 ft.	25 in.	25 lbs.	4.20	3.00

Heavy Square Bottom Cast-Iron Water Troughs.

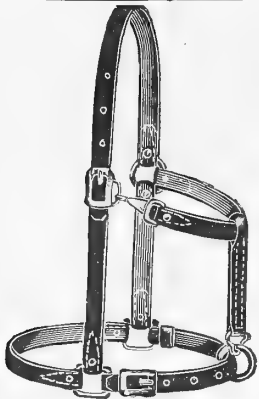
These troughs are 8 inches wide at the bottom and 14 inches wide at the top and 8½ inches deep. We have them in all lengths from 2 feet up. Price, per foot, \$1.25.

GALVANIZED IRON POULTRY TROUGH.



The above cut illustrates our new Galvanized Cast-Iron Poultry Trough with lid, making it the best thing of its kind on the market. We sell same both with and without lid at prices given below.

Length, Inches.	Width, Inches.	Price, With Flat Lid.	Price, Without Lid.
6	3½	\$.25	\$.20
12	3½	.40	.30
18	3½	.50	.40
22	6	.85	.75
29	6	1.00	.85
22	6	With Arched Lid. \$1.25	
29	6	1.55	
36	6	1.95	
48	6	2.45	



No. 58 CYCLONE LEATHER HORSE HALTERS

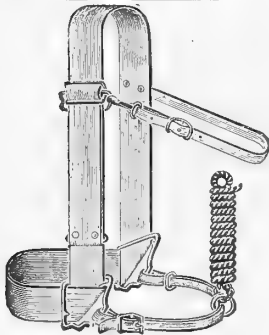
One and one-quarter inch. Stitched and riveted, extra strong. List Price, \$2.00 each. Our Special Price, \$1.25 each.

CHROME LEATHER HORSE HALTER

These halters are made from a special tanned belting leather, stitched and riveted. 1 1/4 in. List, \$2.00. Our Special Price, \$1.25. 1 1/2 in. List, \$2.50. Our Special Price, \$1.50.

LEATHER COW HALTER

List Price, \$2.00 each.
Our Special Price, \$1.25 each.



COLT HALTER---RUSSET LEATHER

Made especially for Colts; from best leather.

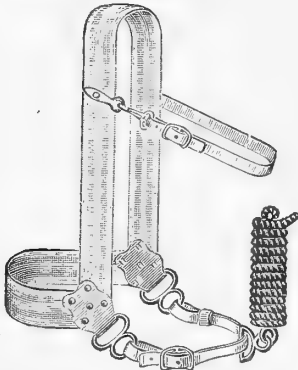
List Price, \$1.20.

Retail Price, 75c.

ADJUSTABLE WEB HALTERS, No. 1

Continuous piece, solid color, No. 1 extra quality web, folded through metal corners, adjustable buckle. Leather chin piece with buckle. Rope lead, leather latch, snap.

Price.....40c.

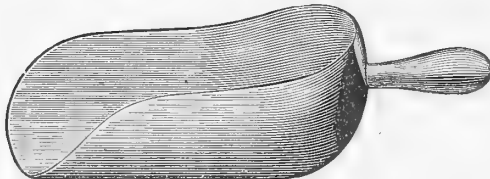


NO. 2 WEB HALTERS

Continuous piece No. 1 Web through metal corners. Leather chin piece. Rope Lead, leather latch, with snap.

Price.....25c.

CAST ALUMINUM SCOOPS



MADE OF PURE ALUMINUM, CAST IN ONE PIECE, LIGHT AND CONVENIENT---ABSOLUTELY INDESTRUCTIBLE.

	List Price.	Our Special Price.
No. 1---Size 4x11 inches, each.....	\$2.00	\$1.25
No. 2---Size 5x12 inches, each.....	2.40	1.50
No. 3---Size 5 1/2 x14 inches, each.....	2.80	1.75
Per set	7.20	4.50

CRESCENT GALVANIZED STEEL SCOOPS for Sugar and Salt.

	List Price.	Our Special Price.
Siemens steel, extra galvanized, non-corrosive. Hard maple heads and handles.	Doz.	Each.
No. 3---Capacity, 2 1/4 lbs.....	\$4.00	\$0.25
No. 4---Capacity, 3 1/2 lbs.....	4.50	.30
No. 5---Capacity, 4 1/2 lbs.....	6.00	.35
No. 6---Capacity, 5 1/2 lbs.....	8.00	.40

ROPE CATTLE TIES

No. 652.—Half-inch Manila rope, 8 feet long, single snap. List Price, \$4.80 dozen. Our Special Price, 30c. each.

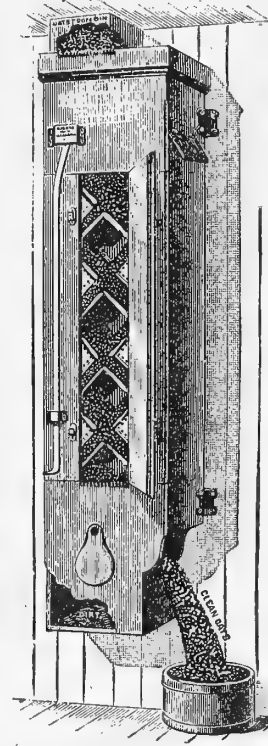
No. 655.—Half-inch XX Sisal rope, 8 feet long, single snap. List Price, \$2.80 dozen. Our Special Price, 20c. each.

ROPE HORSE TIES

No. 652.—Half-inch Manila, 10 feet long (2 snaps). List Price, \$4.80 dozen. Our Special Price, 35c. each.

No. 667.—Half-inch XX Sisal, 10 feet long (2 snaps). List Price, \$4.00 dozen. Our Special Price, 25c. each.

HIGBIE SELF-ACTING OATS CLEANER



This cleaner will remove one bushel of dust, dirt, stones, sticks, etc., from every 25 to 30 bushels of cleaned oats; or, in other words, each horse chokes down 7 to 10 bushels of dust, dirt, etc., per year, unless all oats are drawn through a Higbie Self-Acting Oats Cleaner.

The dirt box is in the base of the Cleaner, and may be emptied through a hand-hole in the bottom.

Price.....\$21.50

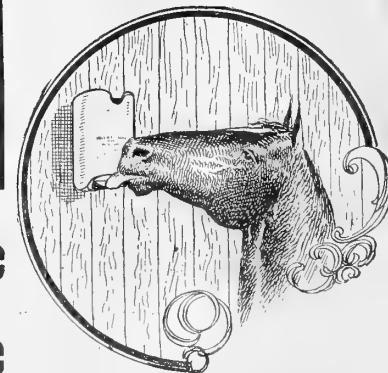
UTILITY STOCK SALT

Prepared with Hickory Ashes. Answers two purposes at one feeding—salting and administering a valuable tonic.

5-lb. can, 50c.; 45-lb. pail, \$3.60; 100-lb. keg, \$7.00; 150 lbs., 1/2 bbl., \$10.50.

Rock Salt and Ground Alum Salt. Prices on Application.

ROTO SALT FEEDER



ROTO FEEDERS EACH, 25c SALT CAKES EACH, 25c

The universal sale of refined compressed salt for horses and cattle proves that this is the accepted way of feeding salt. It is now only a question of the best shaped salt cake and the best style of feeder.

Is sanitary. Does not foul. Can be cleaned by merely wiping with a damp sponge or cloth. Has no corners to collect dirt, disease or filth. A square corner can never be absolutely cleansed. No waste; observe construction—the salt can only be licked from the bottom of the feeder; superfluous moisture is gone at once; the salt cake is not softened and wasted. Minimum surface of salt exposed to dust or dampness; no crumbling, no waste, no chance for animal to eject salt cake from the feeder. Every advantage and not a fault. We illustrate the feeder; study its points; no argument is needed.

Made of stoneware of a special composition.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

CURRY COMBS

**8 BARS, HAND RIVETED.
PATENT APPLIED FOR.**

No. 480.



No. 480.—Columbia—
Lacquered. Packed one
dozen in box. List Price,
\$3.00 dozen. Our Special
Price, 25c. each.

CURRY COMBS.

No. 494.—All steel;
closed back; galvanized;
guaranteed not to rust;
extra large size; oval face;
8 bars; double braced
shank extending through
handle and riveted. List
Price, \$3.50 dozen. Our
Special Price, 30c. each.
Packed 12 in a box.

No. 496.



All Steel, Closed Back

No. 496.—All steel
closed back, lacquered,
extra size, oval face,
curved knockers, braced
shank, extending through
handle and riveted, ena-
meled handle, brass fer-
rule, 8 bars.

Packed 1 doz. in a box.
Cases made for 24 dozen.
List Price, \$3.00 dozen.
Our Special Price, 25c. ea.

HORSE MUZZLES.



Well made
and of good
stout wire.
Number 18.
Plain List
Price, Doz.,
76c.; Our
Special
Price, each,
5c.
Number 16.
Braced. List
Price, dozen,
\$1.50; Our
Special
Price, each,
10c.

No. 15, Braced. List Price, Doz.,
\$1.70. Our Special Price, each, 15c.



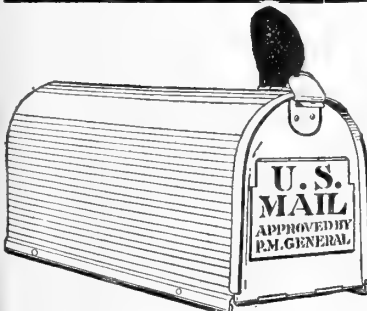
LOCKS

**All These Locks Are Tested Before
Leaving Factory.**

	List Price, Dozen.	Special Price, Each.
4031—Pressed steel, brass plated, with 2 keys.....	\$1.80	\$0.10
6160—Green enameled, with 2 keys.....	2.80	.15
4012—Wrought metal, self-locking, with 2 keys.....	2.00	.15
1903—High grade bronze, with 2 flat keys.....	3.80	.20
550—Heavy nickel-plated, with 2 keys.....	3.60	.20
1902—Bronze metal case, with 2 keys.....	4.50	.25
4067—Seamless steel shell, with 2 keys.....	4.50	.25
16022—Wrought steel, six levers, with 2 keys.....	4.50	.25
1904—Highest grade brass case, with 2 keys.....	5.40	.30
5057—Wrought bronze, three levers, with 2 keys.....	5.40	.30
16034—Wrought steel, eight levers, with 2 double fitted drilled barrel keys.....	7.20	.40
1484—All bronze, smooth finish, with 2 keys.....	7.20	.40
1610—Heavy all brass, with chain and 2 hand- fitted keys.....	18.00	1.00
9902—Mail lock, no chain.....	4.00	.25
9902—Mail lock, with chain.....	6.00	.35

The Dreshler

R. F. D. Mail Box



Will last a lifetime
and sells at sight. Made
of 20-gauge galvanized
iron, painted aluminum,
absolutely storm-proof,
perfect in operation, posi-
tive locking signal in
either position—up or
down, weather-proof slot
in door for depositing the
mail without unlocking
the box. No rivets or
bolts required to set it
up. Slide the bottom in
grooves—that's all.

When the patron nails the box on a post this fastens the
box so that it cannot be taken apart.
One half-dozen to a crate. Shipping weight, 72 pounds to
the dozen. Size, 7x8x19 inches.

List Price, \$1.20 each. Our Special Price, 75c. each.

No. 490.

No. 490.

**Eight Bars, Extra
Heavy.**



All steel shank
runs through handle
and is riveted.
Packed one dozen
in box.

List Price, \$3.20
dozen. Our Special
Price, 25c. each.

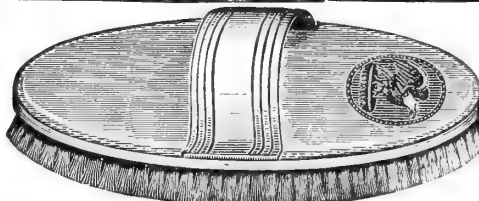
No. 495.—All steel closed back; bronze-plated; guaranteed
not to rust; extra large size; oval face; eight bars; double
braced shank extending through handle and riveted. List
Price, \$3.50 dozen. Our Special Price, 30c. each. Packed 12
in a box.

No. 400.



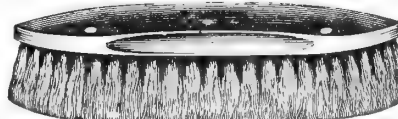
No. 400.—All steel,
closed back, 6 bars,
plain knocker lacquer-
ed, enameled handle,
brass ferrule, oval
face and riveted.
Packed one dozen in
box. List Price, \$2.00
dozen. Our Special
Price, 15c. each.

LEATHER BACK BRUSHES



Our
Special
Price,
Doz.
Each.

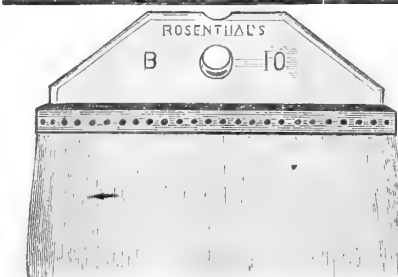
No. 167—Patent Leather Back.....	\$12.00	\$0.60
No. 333—Yellow Leather Back.....	13.00	.75
No. 50—Yellow Leather Back.....	15.00	.90
No. 443—Russet Leather Flexible Back, Army. Back, Army.....	24.00	1.25
No. 226—All Bristle, Russet Leather, Flexible Back, Army.....	29.00	1.50
No. 225—All Bristle, Leather, Flexible Back..	35.00	1.75
No. 442—Warranted all white bristle.....	45.00	2.25



DANDY BRUSHES

Our
Special
Price,
Doz.
Each.

No. 570—Oval Bush.....	\$5.00 doz.	\$0.30 each.
No. 7 1/2—Palmetto Dandy.....	4.50 doz.	.25 each.
No. 604—Palmetto Dandy.....	7.00 doz.	.40 each.

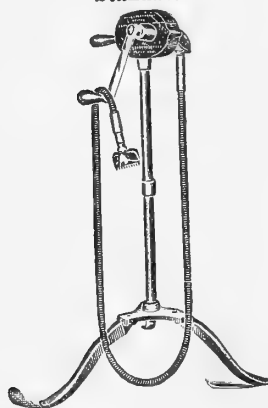


Whitewash Brushes

	List Price.	Our Special Price.
No. 7—Family.....	\$3.00	\$0.15
No. 5—Daisy.....	6.75	.40
No. 1—Columbia.....	14.00	.75
No. 2—Columbia.....	20.00	1.15
No. 30.....	29.00	1.50
Crown.....	36.00	1.75
**** Extra.....	50.00	2.75
3 Triangle Extra.....	55.00	3.00

STEWART HORSE CLIPPING MACHINES-STANDARD OF THE WORLD

THE STEWART No. 1 BALL BEARING HORSE CLIPPING MACHINE.
Standard of the World.



A rigid and very durable machine. Shipped, knocked down in compact box, weighing, complete, 36 lbs. Anyone can set it up. Gears enclosed in dust-proof metal box are cut from special steel and hardened. Has six-foot easy-running flexible shaft and famous Stewart clipping head.
Price, complete, \$7.50.

Sheep-Shearing Attachment

For Use on Our No. 1 or No. 2 Horse-Clipping Machines.

This attachment consists of complete No. 5 Stewart Shear Head, four sets of shearing knives, the solid core, universal jointed shaft and cogs, as shown here. Weight, boxed, 15 lbs.. Price of complete attachment, as described, \$7.75.

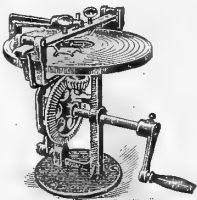


Stewart Automatic Grinder

For Horse-Clipping and Sheep-Shearing Knives.

Grinds the knives in a few seconds to cut equal to new. Knives are placed in holder, so no skill is required; weight, 36 lbs.

Price—Fitted for Horse Knives, \$6.00; Fitted for Sheep Knives, \$6.00; Fitted for both, \$6.50.

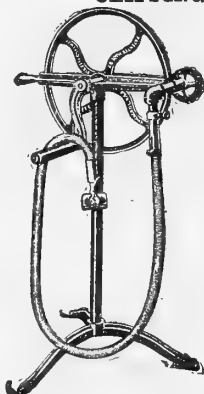


THE STEWART No. 2 CHICAGO HORSE CLIPPING MACHINE.

For Large Stables.

A strong and powerful machine for large stables and custom clipping. Extra rigid construction throughout. Wearing parts all hardened tool steel. Has 6½-foot flexible shaft and Stewart clipping head. The most powerful and durable clipping machine ever made. Shipped, knocked down in strong box. Weight, 70 lbs.

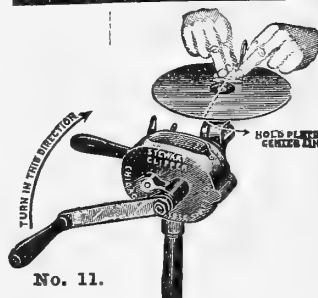
Price, complete, \$10.75.



Horse Clipping Attachment

Will fit any Stewart Sheep-Shearing Machine.

Consists of eye spindle and six feet of high quality flexible shaft. Also the famous Stewart clipping head. Can be attached in a few seconds. Owners of a Stewart Sheep-Shearing Machine who have horses should have this attachment. Packed in box. **Price, \$5.50.**

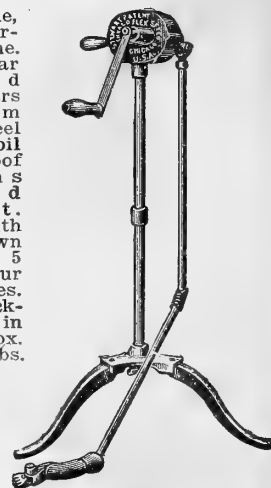


No. 11.

Attaches to a No. 1 Stewart Horse-Clipping Machine or Stewart No. 8 or No. 9 Sheep-Shearing Machine. Puts a perfect edge on horse-clipping or sheep-shearing knives. Every user of a horse-clipping or sheep-shearing machine should have one. **Price, \$3.50.**

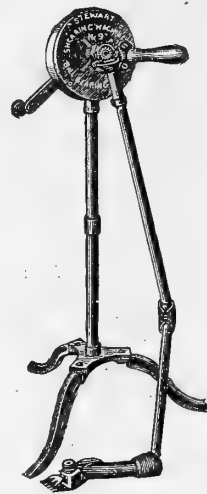
THE STEWART No. 8 SHEEP SHEARING MACHINE.

A high-grade, durable Shearing Machine. Made to wear and do good work. Gears all cut from solid tool steel and run in oil in dust-proof case. Turns easy and Shears fast. Equipped with the well-known Stewart No. 5 Shear and four pairs of blades. Shipped knocked down in strong box. Weight, 36 lbs.
Price, \$9.75.



The Stewart No. 9 Ball-Bearing Sheep-Shearing Machine

A very strong and durable machine, shipped, knocked down in compact case. Gears are all cut from solid tool steel, are hardened and are enclosed in dust-proof metal box. Has large balance wheel to assist in easy running. Every joint in the shaft and shearing head is fitted with ball-bearings, producing the most easy running and efficient shearing machine ever made. This is the machine to buy. Fitted with No. 7 ball-bearing shear, four combs and four cutters. Weight, 50 lbs. **Price, \$11.50.**

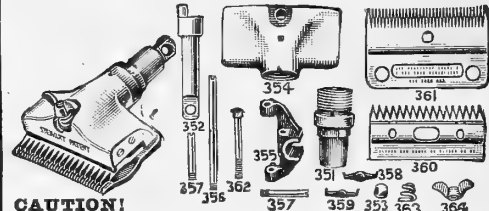


Parts of Handle and Knife Used on All Stewart Horse Clipping Machines Before January 1st, 1915



No.	Net Weight and List.
C-1	Stewart horse clipper handle and knife, complete 20 oz. \$3.50
C-2	Pair Stewart horse clipper blades, top and bottom 8 oz. 2.50
C-3	Horse clipper handle, complete, without knives. 10 oz. 1.00
90	Top plate 3 oz. 1.00
91	Tension spring of handle 1-16 oz. .05
92	Tension bolt of handle 1-6 oz. .05
93	Eccentric roll of handle 1-15 oz. .10
94	Tension nut of handle 1-6 oz. .05
95	Pin and shaft of handle 2½ oz. .35
96	Shank of handle 3½ oz. .40
97	Front part of handle 4 oz. .50
98	Bottom plate of handle 5 oz. 1.50

PARTS FOR STEWART LATEST MODEL CUTTING HEAD FOR HORSE-CLIPPING MACHINES.



CAUTION!

Do not file or grind any part of the clipping head in any way. It is exactly right to cut best. The only grinding to be done is to resharpen the cutting plates when they get dull, and that must be done right.

Be sure to let parts Nos. 358 and 359 alone. If they should be removed in any way, do not attempt to use the clipper head until they are properly replaced. Remove before grinding and replace after.

No. Part. Price, each Weight	No. Part. Price, each Weight
350 Shaft socket. .25 6 oz.	357 Guide pins. .05 1-7 oz.
351 Taper sleeve. .40 2 oz.	358 Ball boss. .05 1-7 oz.
352 Drive pin. .35 2 oz.	359 Socket boss. .05 1-7 oz.
353 Drive ball. .10 1-16 oz.	360 Top plate. 1.00 2 oz.
354 Brace. .50 5 oz.	361 Bottom plate. 1.50 3 oz.
355 Cross head. .50 1 oz.	362 Tension bolt. .05 1-5 oz.
356 Cross head pin. .10 1-3 oz.	363 Tension spring. .05 1-16 oz.
	364 Tension nut. .05 1-7 oz.

AUTOMOBILE AND CARRIAGE HEATERS

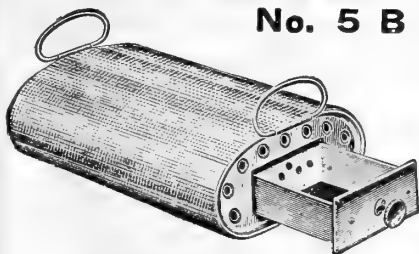
THE LEADER



The Leader is a splendid new all-metal heater that always gives satisfaction. This new heater is made entirely of metal; is strong and durable; cannot be bent or broken; oval pattern, 12 inches long; weight, 4 lbs.

Price, \$1.00.

No. 5 B



Strong, Ornamental, Convenient.

No. 5 B—Clark Heater, 12 inches long, otherwise same as 3 D, except carpet is not braided-bound. Weight, 4 lbs. Price, \$1.50.

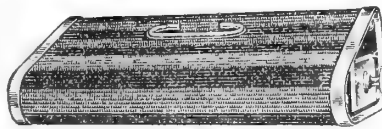
No. 5—12 inches long, white metal ends, not covered, \$1.25.

No. 3 D



No. 3 D—Clark Heater, 14 inches long, sheet metal case, stamped white metal ends, covering of braided-bound Brussels carpet. Weight, 7 lbs. Price, \$2.00.

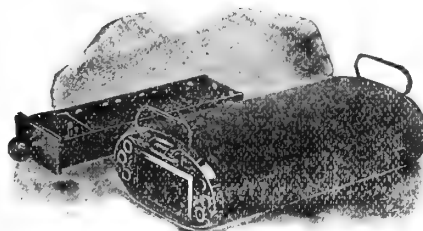
No. 7 D



heat or entirely stop combustion and save coal for future use. Weight, 7 lbs. Price, \$2.25.

No. 7 D—Clark Heater, 14 inches long, nickel-plated steel ends, heavily reinforced, covered with Brussels carpet, slanting top, adjustable side and end ventilators. Can be regulated so as to increase or diminish the

No. 1



scorching of carpet impossible. Weight, about 10 pounds. Price, \$3.00.

No. 1—Clark Heater, 14 inches long, ends of heavy cast metal, nicely polished and nickel-plated. Is made extra strong and heavy, and cannot be crushed, or even bent. It is covered with royal velvet carpet, underneath which is a special asbestos packing, which makes

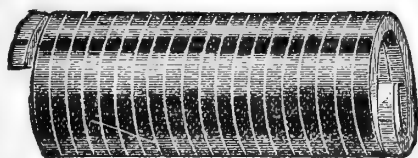
PREPARED COAL



One cake will last 15 to 16 hours. No smoke, odor, flame or gas. Price, case of one doz. cakes, 75c. Per case of 100 bricks, \$6.00.

A B C COAL—Per dozen, 60c. Case of 100 bricks, \$4.80.

Coil Axle Washers



100 Washers in a Box.

¾-inch, per box—List Price, 30c. Our Special Price, 20c.

1-inch, per box—List Price, 32c. Our Special Price, 20c.

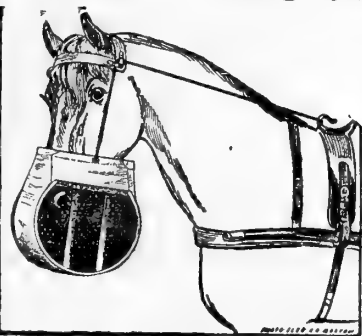
SOLID CUT AXLE WASHERS

Five Sets in a Box.	List Price.	Our Special Price.
¾ in., per box.....	\$.34	\$.20
7/8 in., per box.....	.38	.25
1 in., per box.....	.44	.30
1 1/8 in., per box.....	.50	.30
1 1/4 in., per box.....	.56	.35

Star Shaft Coupler and Anti-Rattler

Simplest, safest and strongest coupler made. No rivets or joints to wear out or break. List Price, dozen pairs, \$4.00. Our Special Price, per pair, 25c.

WILLIAMS' FEED BAG



Heavy duck, with woven-wire sides. It folds into a small space. The best wire-ventilated bag made. Our Special Price, \$1.25.

MODOC FEED BAG. Plain wood bottom, overhead rope, with patent pocket. Our Special Price, 25c.

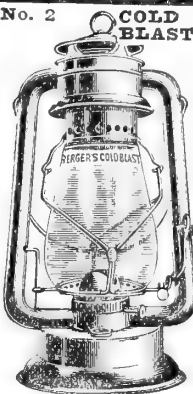
PIONEER FEED BAG. Patent pocket, bridle and pulley attachments. Patent center grooved wood bottoms and leather ventilators. Our Special Price, \$1.00.



HITCHING POST

This Hitching Post is made of steel pipe. Equipped with wrought iron base and heavy ball. It cannot be pulled out or broken. List Price, \$4.50; Retail, \$3.00.

No. 2 COLD BLAST.



No. 2 Storm King Cold Blast Lanterns

Clear, white, smokeless light, perfect combustion, fiercest gales cannot blow out, or "fiercest" roads jolt out. Price, \$1.00.

No. 2 Cold Blast Lanterns, with Hood Reflector\$1.50

Duplex Storm Queen Lanterns

This lantern has a red bull's eye in the reflector, and shows a white light in front and red light in rear. Used on Automobiles and Buggies. \$1.00.

TUBULAR LANTERNS

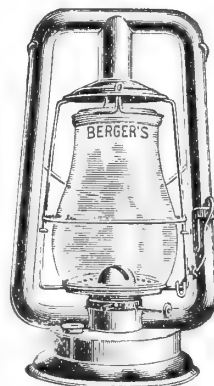
No. 0 Side Lift.

Patented one-piece crimped tubes. No. 1 burner, ¾-inch wick, No. 0 globe, lock burner, simplicity side lift, retinned and tested founts. Especially designed for severe usage. Price, 50c.

No. 0 DASHBOARD

Furnished in bull's eye globes, No. 1 burner, ¾-inch wick. No. 0 globe. Price, \$1.00.

Hood Reflector Dashboard Lantern. Price, \$1.50.



No. 0 Tubular.

ADJUSTABLE STORM FRONT



Is strictly adjustable. One size will fit any piano-box buggy. One size fits all Phaetons, Stanhopes, etc.

The material is Calendered Rubber Cloth, strong and durable. The window is 12x20 inches, made of fine celluloid, as transparent as any window glass.

The line hole is 10½ inches long, has a light metal edge, so the reins cannot tear out or sag the cloth. It has a broad flap that prevents the entrance of water, wind or snow.

BUGGY SIZE.

BUGGY SIZE.
No. 212—Black Rubber, 28 oz. \$3.50
Can furnish cheaper storm fronts, but
do not carry them in stock.

DUST HOOD

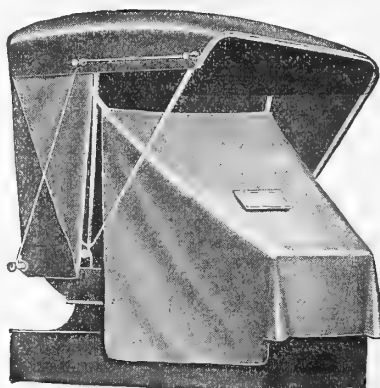
NO MEASURING REQUIRED.

This **Dust Hood** will fit any buggy top from 36 to 44 inches wide, and it looks better than a made-to-order hood.

The objection to most hoods is the wrinkles and puckering. All this has been done away with.

No. 8, 22 oz.....	\$1.50
No. 9, 28 oz.....	1.75

Adjustable Storm Aprons



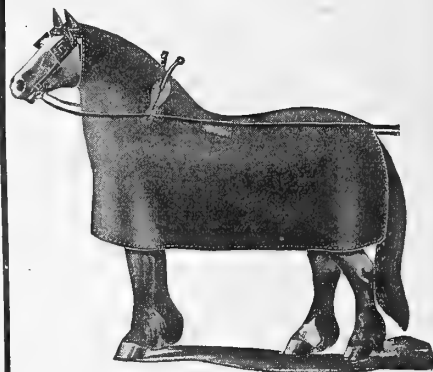
These Aprons are made of the best material. They are fastened to the dash by two steel clamps shaped like clothespins.

No. 52—22-oz. Black Rubber. Size,
50x54 inches.....\$1.35

No. 57—28-oz. Black Rubber. Size,
50x60 inches.....\$1.80

No.	59—28-oz.	Melodeon.	Size,
50x60	inches.....		\$2.00

HORSE COVERS



All covers have large hame leathers; line rings riveted on hame leathers; snap and rings at trace; strap and buckles at breast; line pocket at saddle, and can be used for double or single team. Size—5 feet 4 inches.

No. 75—Brown Oiled Duck, to
neck **\$3.25**

No. 76—Brown Oiled Duck, to head..... \$3.50

UNITED STATES AUTOMOBILE TIRES

The factory guarantees all Pneumatic Automobile Tires bearing their name and serial number to be free from imperfections in material and workmanship. Tires returned for consideration under this guarantee will be accepted only when all transportation charges are prepaid to factory. If upon examination it is their judgment the tires are defective, they will be repaired, replaced or allowance made at their option.

	Plain Tread Casings.	Chain Tread Casings.	Nobby Tread Casings.	Grey Tubes.
	\$8.50	\$10.00	\$13.50	\$2.25
28x3	9.00	10.70	14.40	2.35
30x3	9.90	11.95	16.10	2.50
*32x3	11.60	14.00	18.80	2.70
30x3 1/2	12.15	14.70	19.80	2.75
31x3 1/2	13.35	16.00	21.60	2.80
32x3 1/2	14.90	18.10	24.50	2.95
34x3 1/2	17.95	21.90	28.75	3.70
32x4	18.25	22.30	29.30	3.80
33x4	19.05	23.45	30.80	3.90
34x4	19.40	23.95	31.45	4.00
35x4	20.20	25.10	32.95	4.10
36x4	20.50	25.50	33.50	4.20
†37x4	21.30	26.65	35.00	4.30
34x4 1/2	26.00	31.00	42.00	5.00
35x4 1/2	27.00	32.40	43.85	5.10
36x4 1/2	27.35	32.85	44.50	5.20
37x4 1/2	28.35	34.20	46.40	5.30
36x5	31.15	37.35	49.75	6.20
37x5	32.30	38.90	51.90	6.30
37x5 1/2	44.75	54.95	59.75	6.75

Plain Tread.

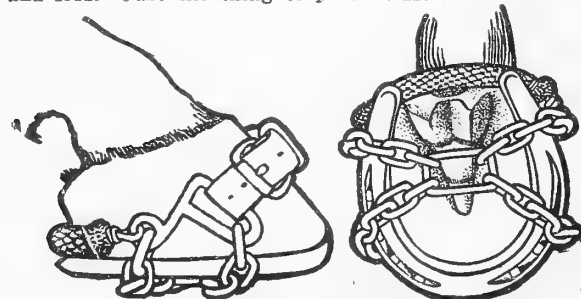
*Made in Clincher only. †Made in Dunlap and Quick Detachable. Other sizes made in Clincher, Dunlap and Quick Detachable.

Non-Skid.

Kinnell Emergency Chain Overshoe for Horses

NO EXCUSE FOR HORSES SLIPPING.

Put the Kinnell Emergency Shoe on Your Horses. Prevents suffering and loss. Just the thing to prevent Horses from breaking legs, causing



Special Chain Shoes for Mules, small, medium and large. The average 1400-lb. horse requires a No. 5. The average 1600-lb. horse requires a No. 6. Price, per set of four—List, \$7.20; Retail, \$4.00.

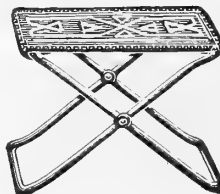
FOLDING CHAIR



This Folding Chair is made of the best material, and fills a real want. It allows the automobilist to increase the capacity of his car without crowding, and is an ideal chair for motorboats. It can be folded sufficiently small to be carried under the seat of an automobile or stowed under the bow of a motorboat.

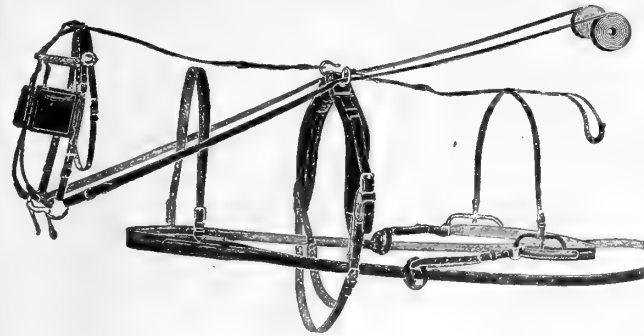
No. 106—Japanned Art. Leather, Price, \$1.75.

THIRD SEAT



A Third Seat allows three people to ride comfortably in any carriage. It is also very useful about the house as a stool or child's seat. Being made of selected material, it is strong and durable. It is simple in construction, and cannot get out of order.

No. 11—Oxidized, Brussels Carpet, Price, 60c.



CARRIAGE & WAGON HARNESS

No. 700—SINGLE BUGGY HARNESS.

Bridles, $\frac{5}{8}$ inch; Traces, 1 inch; Saddle, $2\frac{1}{2}$ inches; Breast Collar and Breeching, single leather; Flat Lines; X. C. Mounting. Price with Collar and Hames, \$10.50; with Breast Collar, \$9.75.

No. 603—SINGLE BUGGY HARNESS.

Bridles, $\frac{5}{8}$ inch; Traces, $1\frac{1}{2}$ inches; Saddle, 3 inches, with Nickel Hook and Terrets; Breast Collar and Breeching folded with straight lay; Flat Lines; X. C. Mounting, Imitation Hand Stitched. Price, with Collar and Hames, \$14.25; with Breast Collar, \$13.50.

No. 43—SINGLE BUGGY HARNESS.

Bridles, $\frac{5}{8}$ inch; Traces, $1\frac{1}{2}$ inches; Saddle, 3 inches; Breast Collar and Breeching folded with straight lay; Flat Lines; X. C. Mounting, with Nickel Hook and Terrets, Imitation Hand

Stitched. Price, with Collar and Hames, \$15.50; with Breast Collar, \$13.25.

No. 23—SINGLE STRAP BUGGY HARNESS.

Bridles, $\frac{5}{8}$ inch; Box Loop, Lay-on Crown, Two-piece Overcheck, Round Brace, Round Front, Crystal Rosettes; Lines, $\frac{7}{8} \times 1\frac{1}{2}$ inches, Black; Steel Billet; Breast Collar, $2\frac{3}{4}$ inches, Curved; Traces, $1\frac{1}{2}$ inches, Attached; Saddle, 3 inches; Hand-laced Track; Patent Leather Jockeys and Skirts; Enamelled Leather Lined; Shaft Tugs, 1 inch, Double and Stitched, Billet attached with Dee, Box Loops; Girth, $2\frac{1}{4}$ inches, Double and Stitched, Box Loops, Outside Girth sliding through loop $1\frac{1}{2}$ inches long; Breeching, $1\frac{3}{4}$ inches, extended under Ring; Double Stay, $\frac{3}{4}$ inch; Solid Waved Turnback, Round Dock sewed on; $\frac{5}{8}$ -inch Hip Strap; $\frac{7}{8}$ -inch Holdback Straps, with Pressed Loops; Edges rounded, no creasing. Imitation Rubber, Nickel or Brass Trimmings. Price, with Breast Collar, \$17.25; with Kip Collar, Traces to Buckle, \$20.75.

No. 12—SINGLE STRAP BUGGY HARNESS.

Bridles, $\frac{5}{8}$ inch; Box Loop, Overchecks, Square Blinds, Round Brace; $\frac{7}{8} \times 1\frac{1}{2}$ -inch Steel Billet Lines; 3-inch Curved or V-shaped Breast Collar; $1\frac{1}{4}$ -inch Traces attached; 3-inch Track Saddle, Patent Leather Skirts, Enamelled, Leather Lined, Hand-laced; 1-inch Double and Stitched Shaft Tugs, Box Loop; 2-inch Griffith Girth, $\frac{7}{8}$ -inch Billets; Breeching, $1\frac{3}{4}$ -inch, Round Stay; $\frac{7}{8}$ -inch Solid Waved Turnback, $\frac{3}{4}$ -inch Hip Strap, $\frac{7}{8}$ -inch Holdback Straps, Round Dock sewed on; Edges rounded; no creasing. Imitation Rubber or Nickel Trimmings. Price, with Breast Collar, \$20.75; with Kip Collar, Traces to Buckle, \$23.25.

No. 93—SINGLE CARRIAGE HARNESS.

Bridles, $\frac{5}{8}$ inch; Traces, $1\frac{1}{4}$ inch; Saddle, $3\frac{1}{2}$ inches; Breast Collar and Breeching folded with straight lay; Flat Lines; X. C. Mountings; Imitation Hand Stitched. Price, with Collar and Hames, \$18.00.

No. 94—SINGLE CARRIAGE HARNESS.

Bridles, $\frac{3}{4}$ inch; Traces, $1\frac{1}{4}$ inch; Saddle, 4 inches; Breast Collar and Breeching folded with straight lay; Flat Lines; Nickel Hook and Terrets, balance of mounting X. C.; Imitation Hand Stitched. Price, with Kip, Plain Front Collar and Hames, \$21.00.

No. 29—DOUBLE BUGGY HARNESS.

Bridles, $\frac{5}{8}$ inch; Traces, 1 inch; Pads with inserted Housings; $1\frac{1}{4}$ -inch Side Straps and Folded Bellybands; Turnback, $\frac{1}{4}$ inch; Hip Strap, $\frac{5}{8}$ inch, with Patent Leather Drops; Flat Lines; Black Collars; X. C. Mounting. Price, \$25.50.

No. 19—DOUBLE BUGGY HARNESS.

Bridles, $\frac{5}{8}$ inch; Traces, $1\frac{1}{2}$ inch; Pads Full Leather Bottom, Hair Stuffed; $1\frac{1}{4}$ -inch Side Straps and Folded Bellybands; Turnbacks, $\frac{3}{4}$ inch; no Hip Strap; Flat Lines; Kip Collars; Nickel or Imitation Rubber Mountings; Imitation Hand Stitched. Price, \$34.50.

No. 36—DOUBLE BUGGY HARNESS.

Bridles, $\frac{5}{8}$ inch, with Overchecks; Traces, $1\frac{1}{2}$ inch, Raised; Plain or Fancy Bound Pads, with Leather Housings Inserted; $1\frac{1}{4}$ -inch Side Straps; Folded Bellybands; Turnbacks, $\frac{3}{4}$ inch, waved; Round Hip Straps; Flat Lines; Kip Collars; Nickel or Imitation Rubber Mounting; Imitation Hand Stitched; Nicely Finished. Price, \$39.75.

No. 27—EXPRESS HARNESS.

Bridles, $\frac{3}{4}$ inch; Traces, $1\frac{1}{4}$ inch; Saddle, 4 inches; Red Wood Hames, with X. C. Ball Top; Folded Breeching, with straight lay; Double Hip Straps; X. C. Mounting. Price, \$21.00.

No. 26—EXPRESS HARNESS.

Bridles, $\frac{3}{4}$ inch; Traces, $1\frac{1}{4}$ inch, with Cock Eyes; Saddle, 4 inches, with Kersey Lining; Red Wood Hames, with Brass Ball Top; Folded Breeching, with straight lay; Double Hip Straps; Brass Mounting; Imitation Hand Stitched. Price, \$24.75.

No. 20—EXPRESS HARNESS.

Bridles, $\frac{3}{4}$ inch; Traces, $1\frac{1}{2}$ inch, to buckle to Hames or with Heel Chains and attached to Hames; Saddle, $4\frac{1}{2}$ inches, with Kersey Lining; Folded Breeching, with straight lay; Double Hip Straps; Brass or X. C. Mounting; Imitation Hand Stitched. Price, \$27.25.

No. 10 $\frac{1}{2}$ —DOUBLE WAGON HARNESS.

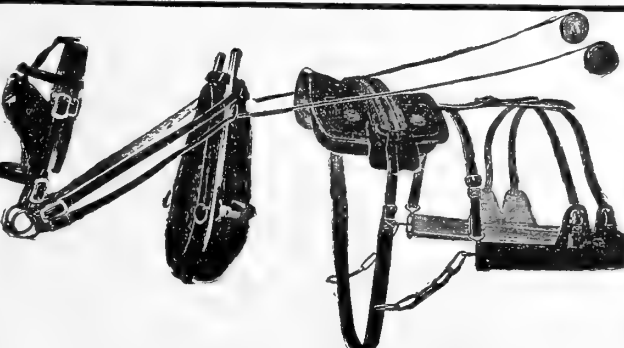
Bridles, $\frac{3}{4}$ inch; Harness Leather Winkers; Ball Top Hames; $1\frac{1}{2}$ -inch Traces, riveted to Hames, with Chain Ends; Folded Pad and Breeching; $\frac{3}{4}$ -inch Double Hip Strap; Split and Tick Collars; Flat Lines. Price, \$28.50.

No. 9—DOUBLE WAGON HARNESS.

Bridles, $\frac{3}{4}$ inch; Patent Leather Winkers; Ball Top Hames; $1\frac{1}{2}$ -inch Traces riveted to Hames, with Chain Ends; Folded Pads and Breeching; $\frac{7}{8}$ -inch Double Hip Strap; Kip Collars; Flat Lines; Imitation Hand Stitched. Price, \$41.50.

No. 17—HEAVY DOUBLE WAGON HARNESS.

Bridles, $\frac{3}{4}$ inch; Patent Leather Winkers; Box Loop Checks; Brass Ball Top Hames; $1\frac{3}{4}$ -inch Traces, riveted to Hames, with Chain Ends; Folded Pad and Breeching; $1\frac{1}{4}$ -inch Turnback and $\frac{3}{8}$ -inch Split Hips; Kip Collar; Flat Lines; Imitation Hand Stitched. Price, \$43.50.



DUMP CART HARNESS

No. A—DUMP CART HARNESS.

Bridle, $\frac{7}{8}$ inch; Lines $\frac{7}{8}$ inch; breeching, 3 inches; No. 5 Saddle, leather covered; No. 62 iron-bound hames; $\frac{7}{8}$ -inch hame straps; tug chains; Kip team collar. Price, without lines, \$15.00; with lines, \$17.00.

No. 8—DUMP CART HARNESS.

Bridle, No. 218, with winker stays; hames, No. 61, Virginia Hook, with straps; collar, all Kip team; saddle, No. 8, doubled and stitched top, full pad, leather girth; breeching, No. 5, 3-inch double body; $1\frac{1}{2}$ -inch turnback; $1\frac{1}{4}$ -inch double hip straps. Price, without lines, \$22.50; with lines, \$25.00.

Prices on Cheap Cart Harness on Application.

ROOT AND SAWED HAMES.



ROOT
AND
SAWED
HAMES.

Per Pair.

Loudon Patent.....\$1.00
Loudon Tie......75
Taylor Root Patent .60
Taylor Root Tie....50

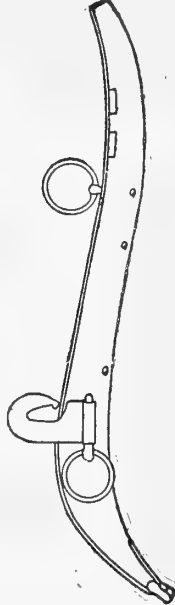
Special prices for both
wholesale and retail
dealers.

BALTIMORE STRAP HAME.



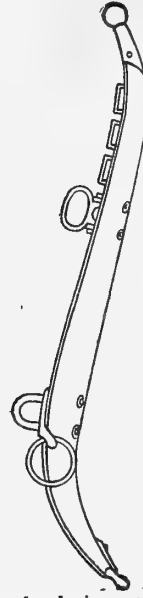
$\frac{7}{8}$ x7-32-inch flat steel,
selected second growth,
air seasoned timber, ex-
tra wide woods, superior
finish, hand forged, ex-
tra heavy steel hook, 17
to 24 in. Per pair, \$1.00.

VA. CART No. 61.



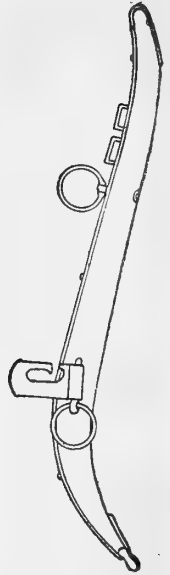
Rock elm or ash wood.
 $\frac{1}{4}$ -in. stiff-bottom loops.
 $\frac{3}{4}$ x $\frac{1}{4}$ -in. steel backs.
Three mortise top loops.
Heavy wrought steel
hooks. Varnished. Pol-
ished irons. Size, 19 to
22 in. Price, 80c. pair.

X. C. No. 15 HAME.



Has hook in wood in-
stead of clip, as shown
in cut. Rock elm wood.
 $\frac{3}{4}$ -in. steel backs. Three
top strap loops. Two stud
line rings. Clip staples
and holdbacks. Double
steel hooks and rings.
X. C. ball, painted red.
Size, 19 to 21 inches.
Price, 75c. pair.

No. 2 HAME.



$\frac{3}{4}$ -in. steel backs. Two
top strap loops. One stud
line ring. Single steel
hooks and rings. Var-
nished. Size, 19 to 20 in.
Price, 40c. pair.

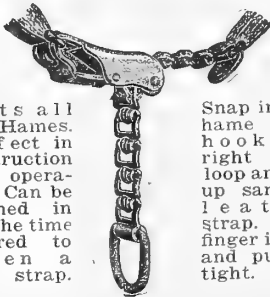
No. 1 HAME.

Same as No. 2, except it has three top strap loops
instead of two, as above. Price, 50c. pair.

QUEEN CITY HAME.

Patented adjustable malleable draft hook. Rock
elm, 19 to 21 inches. Job Lot. Pair, 40c.

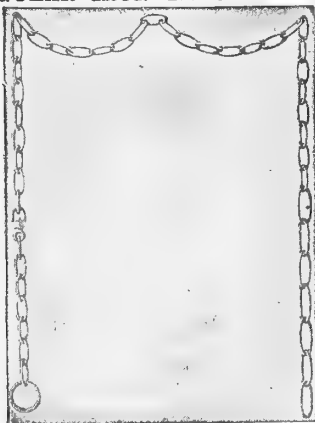
DODSON'S IMPROVED FLAT LINK STEEL HAME CHAINS.



Fits all
work hames.
Perfect in
construction
and opera-
tion. Can be
fastened in
half the time
required to
fasten a
hame strap.

Snap into off
hame loop,
hook into
right hame
loop and pull
up same as
leather
strap. Put
finger in ring
and pull up
tight. 25c.

REGULAR IRON TRACE CHAINS.



List Price. Retail Price.

6-10-2.....	\$1.00 pair.	\$0.40 pair.
7-8-2.....	1.06 pair.	.45 pair.
7-10-2.....	1.23 pair.	.50 pair.
7-12-2.....	1.45 pair.	.60 pair.
7-14-2.....	1.75 pair.	.70 pair.
7-16-2.....	2.15 pair.	.80 pair.

BREAST CHAINS.

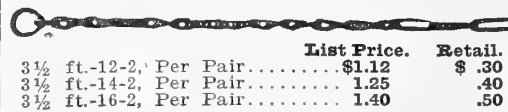


Single Slack.

Double Twist.

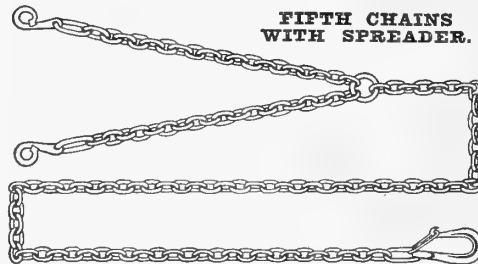
	List.	Retail.
26-in.—5-16-in. iron, double twist, tapered, stiff, pair.....	\$2.00	\$1.25
26-in.— $\frac{1}{4}$ -in. iron, double twist, not tapered, stiff, pair.....	1.75	1.00
27-in.—Double slack, twist, pair....	1.20	.50
26-in.—12-2, single, slack, pair.....	.75	.40

BUTT CHAINS.



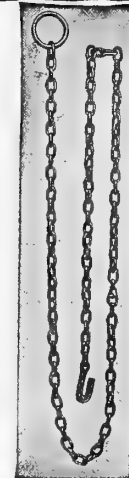
	List Price.	Retail.
3 $\frac{1}{2}$ ft.—12-2, Per Pair.....	\$1.12	\$.30
3 $\frac{1}{2}$ ft.—14-2, Per Pair.....	1.25	.40
3 $\frac{1}{2}$ ft.—16-2, Per Pair.....	1.40	.50

FIFTH CHAINS WITH SPREADER.



No. 67—FIFTH CHAIN—Round hook, ring
and swivel; black; made with spreader 8 $\frac{1}{2}$ ft.
long to spreader 13-32. List Price, \$3.50. Re-
tail Price, \$3.00.

LOG CHAINS

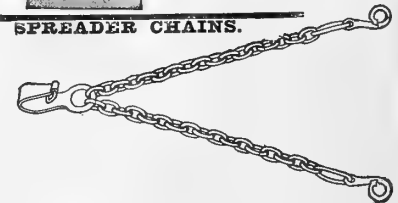


Long Link Log or Ox
Chain, $\frac{3}{8}$ in., 12 or
14 ft. List Price,
15 $\frac{1}{2}$ c. lb.; Retail, 8c.

Long Link Log or Ox
Chain, $\frac{1}{2}$ in., 12 or
14 ft. List Price,
14 $\frac{1}{2}$ c. lb.; Retail, 8c.

Long Link Log or Ox
Chain, $\frac{5}{8}$ in., 12 or
14 ft. List Price
14c. lb.; Retail, 7c.

SPREADER CHAINS.



Straight Link Slack Spreader Chain,
11-32. List, \$4.00; Retail, \$1.50.
B-32. List, \$4.50; Retail, \$1.75.
 $\frac{3}{8}$ Close Link Straight Spreader Chain,
for two horses, with three hooks each.
List, \$5.00; Retail, \$2.00.

TUG CHAINS.



Cart Tug Chains, 18-10-1. List, 50c.;
Retail, 30c. per pair.

COW CHAINS

TRIUMPH CHAINS.—Very light; possess great strength; all links have equal strength. Do not kink; no welds to give way; no sharp edges.

No. 3-0—Triumph Cow Tie (Ohio pat.), each, 35c.	4-0....\$0.40
No. 3-0—4½-ft. Triumph Halter, each 35c.	6-ft.....40
No. 0—20-ft. Tenso Tethering Chain, each.....	60
No. 0—20-ft. Tenso Tethering Chain, each.....	65
No. 0—20-ft. Tenso Tethering Chain, each.....	75
No. 0—30-ft. Tenso Tethering Chain, each.....	75
No. 0—30-ft. Tenso Tethering Chain, each.....	85
No. 0—30-ft. Tenso Tethering Chain, each.....	1.00

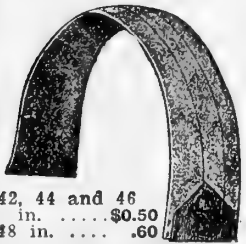
BROWN STEEL COW TIES AND HALTER CHAINS.

No. 3-0—Brown Steel Cow Ties (Ohio pattern), each....	\$0.25
No. 4-0—Brown Steel Cow Ties (Ohio pattern), each....	30
No. 3-0—Brown Steel Halter Chains, 4½ feet.....	25

OPEN SIDE LAP LINKS.

Open Side Lap Links, polished, ½x2½, each, 8c. ¾x½, each.....	\$0.10
Open Side Lap Links, polished, ¾x3, each.....	12
Open Side Rings, ¾x2½, 6c. ½x2½, 8c. ¾x3.....	10

FOLDED DUCK BACK BANDS.



42, 44 and 46 in.	\$0.50
48 in. ....	.60
Boss Back Band Hooks.	
Per pair, 3½ in.	\$0.10
Per pair, 4 in. ....	.12

WEB BACK BANDS.

No. 1—3½-in., 42-in. long...Less Hooks.	\$0.20
No. 1—4 in., 42-in. long....	.25
No. 2—3½-in., 42-in. long....	.15
No. 2—4 in., 42-in. long....	.20

BACK BAND HOOKS.

3½ in.	\$.15
4 in. ....	.20

HAME STRINGS. Black.

¾x42-inch slit, each.....	\$0.10
¾x42-inch slit, each.....	.12
Rawhide.	
¾x42-inch slit, each.....	.10

SWEAT PADS—Feltless

Pinked, Felt Edges, Composite Filling, Four Hooks. Old Gold Drill; best on the market. 50c. Cheaper Old Gold, 40c.

BROWN AND WHITE DRILL PADS.

10-inch....	25c.
12-inch....	30c.



The Indestructible Hameless Steel Horse and Mule Collar

Easy to Put on
and Take Off
No Hames, Pads
or Straps

THAT CURES GALLED NECK AND SHOULDERS.

The metal won't permit the sweat to scald and produce a sore. Being adjustable, they can be made to fit the neck of the horse, whether spring fat or fall poor. They bring the draft to correct point. Durable; lasts a lifetime. The ideal work horse and mule collar. Be sure and investigate the merits of this Twentieth Century Collar. More than a hundred thousand in use. Extensively used on North Carolina prison farms. Endorsed by leading veterinaries and agriculturists everywhere.

Price, Any Size, \$6.00.

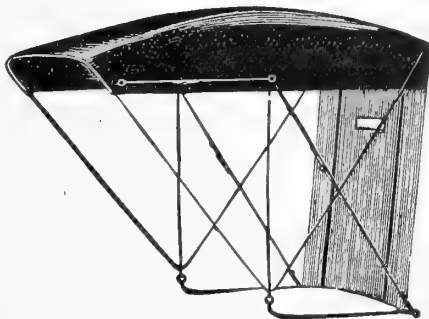
Any size adjustable to 1½ inches longer.



CHAIN REPAIR LINKS.

Chain Repair Links, ¼ or 10-2, dozen, 15c. 9-32, or 10-1, dozen.....\$0.20

BUGGY TOPS



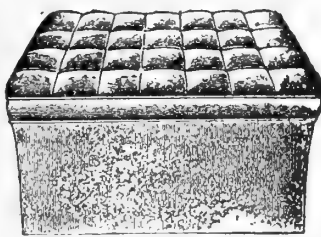
Drill Top, lined with nice union cloth. Tubular sockets and second-growth bows, wrought rail and joints, stitched front valance, does not show nails or tacks. Will keep in shape. **Side Curtains** are included, making top complete. List, \$16.50; Retail, \$10.00.

Rubber Top, cloth lined, tubular sockets and second-growth bows, wrought rail and joints, stitched front valance, no nails or tacks exposed. Will keep shape for years. Complete with side curtains. List, \$21.00; Retail, \$12.50.

BUGGY BACK

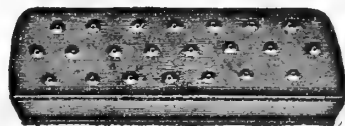
In ordering Backs, give exact measurement of seat at top of rim, from out to out; or, if seat is ready ironed up with back board in position, send paper pattern of the exact size and shape of back wanted.

Enameled Drill—List, \$6.00. Retail, \$3.50.
Heavy Rubber—List, \$7.00. Retail, \$4.00.



CORDED TOP BUGGY CUSHION

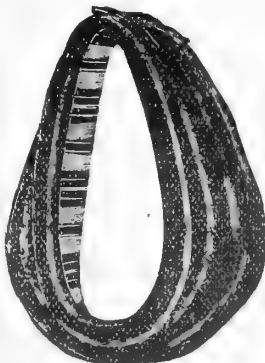
NICELY MADE.—In ordering Cushions, give size of bottom of seat inside, size of fall at top and bottom, and depth from top of sill, or enclose paper pattern. Union Cloth—List, \$4.00. Retail, \$2.50. Rubber Drill—List, \$4.50. Retail, \$2.75. Imitation Leather—List, \$6.00. Retail, \$3.75.



WAGON CUSHION

Black Enameled Drill, 20 to 34 inches long, stitched edge. List, \$1.50. Retail, \$1.00.

HORSE COLLARS



No. 75—DRAFT.—Split Leather Rim and Back; Blacked Tick Face; Patent Fasteners, \$1.25.

No. 85—DRAFT.—Black Split Leather Rim and Back; Sheep Face; Patent Fasteners, \$1.60.

No. 17—TEAM.—Black Split Leather Rim and Back; Tick Face, extra lined, all hand-sewed, with Leather Thong; Patent Fasteners, \$2.00.

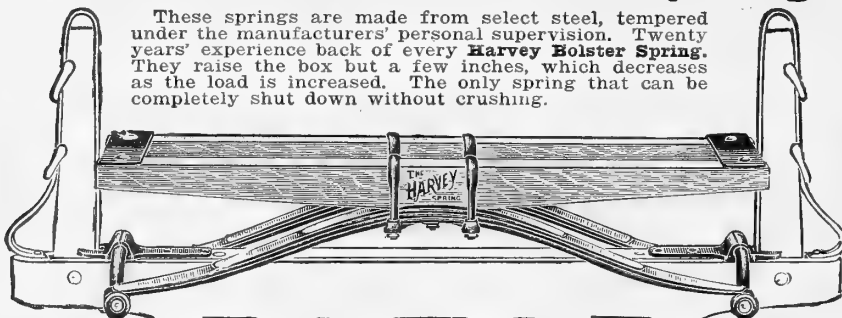
No. 571—TEAM.—Hand-sewed, with Leather Thong; Black Split, Russet Sheep Face; Patent Fasteners, \$2.25.

No. 155—SCOTCH.—Kip Rim and Back; extra lined Tick Face, all hand-sewed, with Thong; Patent Fasteners, \$3.25.

No. 1—CANAL.—All Kip, Russet Face, hand-sewed, with heavy Thongs; Patent Fasteners, \$4.25.

No. 52—BUGGY.—All Kip, Blacked, 2 Buckles, \$2.00.

Harvey XXX Bolster Springs



These springs are made from select steel, tempered under the manufacturers' personal supervision. Twenty years' experience back of every **Harvey Bolster Spring**. They raise the box but a few inches, which decreases as the load is increased. The only spring that can be completely shut down without crushing.

Cap.	42 in.	44 in.	Cap.	42 in.	44 in.	Cap.	42 in.	44 in.
1000	\$7.50	\$8.00	3000	\$12.00	\$13.00	7000	\$19.00	\$20.00
1500	8.00	8.50	4000	13.00	14.00	8000	20.50	21.50
2000	10.00	11.00	5000	14.00	15.00	9000	22.00	23.00
2500	11.00	12.00	6000	17.50	18.50	10000	23.50	24.50

Less 30 per cent. from above prices.

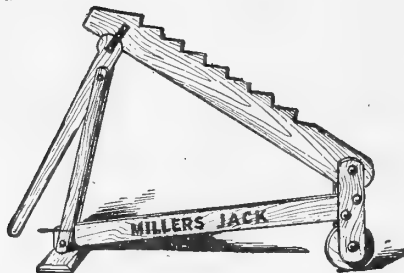
NO. 3 HARVEY, JR., BOLSTER SPRINGS



Capacity.	36" or 38"	40" or 42"
1000	\$4.00	\$4.50
1500	4.50	5.00
2000	5.00	5.50
2500	5.50	6.00

Less 30 per cent. from above prices.

Wood Wagon Jack



No. 1—Adapted for buggies or light work. Capacity, 2000 lbs. \$1.00.

No. 2—For heavy wagons, transfer wagons, trucks, etc. Capacity from 3000 to 5000 lbs. \$1.25.

No. 3—\$1.75.

We also have a cheap Jack, very simple in construction, but one which is easily handled, and which is all right for light work. Price, 50c.

RAT SNAP!

NO DANGER IN HANDLING---BUT DO NOT EAT!

A FEW POINTERS ABOUT RAT SNAP.

By a newly scientific discovery there is **NO SMELL** after rats and mice eat **Rat-Snap**. By the most careful study of the habits and tastes of rats and mice, **Rat-Snap** is so prepared that rats and mice crave it. It is a dessert for them—the last they eat. They leave all other foods for it, while in the cases of home prepared mixtures they will not touch them at all.

Rat-Snap is made of the strongest poisons known and the ingredients carefully prepared to make them the most attractive food for **Rats and Mice**.

Rat-Snap acts quickly and will kill two dozen rats or mice. No annoyance or trouble of mixing.

No soiling of dishes.

Rat-Snap never spoils—is always good.

Rat-Snap may be dropped in holes or along cellar walls, in fact all out-of-the-way places. In linen closets without soiling anything.

Keep away from chickens and stock. When used around chickens, ducks, etc., place in holes and cover with a stone.

Packages, 15c. and 25c.

IMPROVED SAMSON JACK

Malleable Iron.

Best Jack on the market. Can be used for any height axle. Standard cannot drop back on cogs when raised to extreme height. No breaking of cogs and standards.

No. 1—Will raise vehicles weighing 2 tons....\$2.50

No. 2—Will raise vehicles weighing 5 tons.....\$3.50

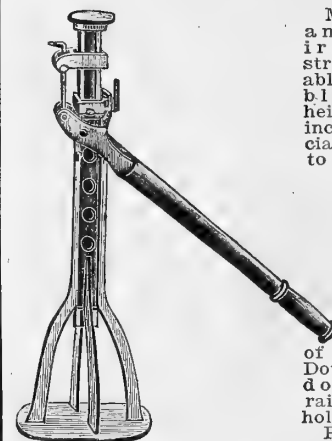
No. 2—Will raise vehicles weighing 5 tons, with drop hook.....\$3.75

Can also furnish other Jacks. Prices on application.



EUREKA WAGON JACK

Made of steel and malleable iron. Light, strong and durable. Adjustable to any height up to 27 inches. Specially adapted to light vehicles



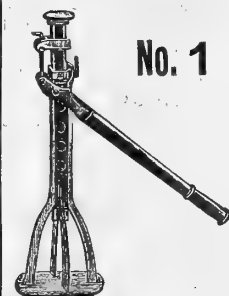
of all kinds. Double acting dogs—one raises, the other holds.

Price, \$1.25.

EUREKA AUTO JACK

This Jack is similar to the Eureka Wagon Jack, excepting it is 12 inches high. A little wonder. Light, but strong. Small, but powerful. It is made of the best material. Will easily lift a heavy automobile. Weight, 4 pounds; capacity, 2000 pounds. Handle detachably connected. Raises or lowers by same handle.

No. 1



Price, \$1.25.

BELL BOTTOM JACK SCREWS

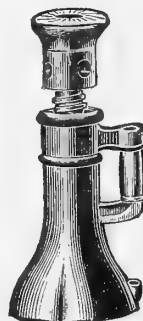
These Jack Screws have cast-iron stands, with forged head screws. For workmanship and durability they cannot be excelled.

Diam. Screw.	Height Stand.	Height over all.	List Price.	Our Special Price.
1 1/2 in.	12 in.	15 in.	\$5.25	\$2.25
1 1/2 in.	14 in.	17 in.	6.00	2.75
1 1/2 in.	16 in.	19 in.	6.75	3.00
2 in.	10 in.	14 in.	6.75	3.00
2 in.	12 in.	16 in.	7.50	3.30
2 in.	14 in.	18 in.	8.25	3.60
2 in.	16 in.	20 in.	9.25	4.00

Capacity 1 1/2-in. diameter screw, 10 tons.

Capacity 2-in. diameter screw, 12 tons.

Other sizes. Prices on application.



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Specifications.

Frame—22 inch. Option on 20- and 24-inch.
Color—Black. Option on Royal Blue, Tan, Carmine or French Grey.
Crown—Drop-forged.
Rims—Hard Maple enameled and striped to match frame. Option on Crescent Steel Rims.
Hubs—Front, New Departure. Rear, Coaster Brake.
Hanger—Fauber Round Special.
Cranks—7-inch throw.
Sprocket—24, 26, 28 tooth front; 7, 8, 9 or 10 tooth rear. Regular gear, 9 and 26 tooth.
Chain—3-16 inch Roller Chain.
Pedals—Rat-trap.
Saddle—Troxel 4B.
Handle Bar—Ordinary adjustable 21 inch wide, 6 inch drop.
Tires—Reliance single tube, grey, studded non-skid tread, fully guaranteed.
MODEL No. 33—Men's Bicycle with Peerless coaster brake \$25.00
MODEL No. 33L—Ladies' Bicycle with Peerless coaster brake 27.00

RELIANCE MEN'S ROADSTER.



BOYS' AND GIRLS' BICYCLE.

Specifications.

Frame— $\frac{1}{2}$ -in. seamless tubing.
Color—Black, with red striping. Option on blue with red striping, carmine or maroon with silver striping.
Fork Crown—Drop-forged.
Hubs—Turned from solid steel bar (no coaster brake).
Bearings—All bearings, including the head bearings, are turned from the solid steel bar, hardened and ground.
Chain—Diamond No. 9, 1-inch pitch.
Rims—Rolled from cold rolled steel with drop centers, valve hole shouldered; enameled to match frame.



Handle Bars—Adjustable.
Saddle—Troxel Juvenile with double coil springs.
Pedals—Standard Rat-trap.
Mud Guards—Rolled from cold-rolled steel with raised center.
Wheels—24 in.
Tires— $1\frac{1}{2}$ -inch Gendron Juvenile single tube, guaranteed.
BOYS' No. 92—Price \$16.25
GIRLS' No. 97—Price 17.00

RAJAH MOTOR-BIKE SPECIAL.

Specifications.

Horn and Lamp are extra equipments.
Frame—22-in. extra long with double top bar, no other size.
Forks—Motor-bike type.
Color—Black. Option on Royal Blue, Carmine, French Grey or Tan.
Crown—Drop-forged.



Rims—Hard maple enameled and striped to match frame. Option on Crescent Steel Rims.
Mud Guards—Steel, with drop center, rolled edge, enameled to match frame.
Hubs—Front, New Departure. Rear, New Departure, Corbin or Morrow Hub.
Hanger—Fauber Special with heart pattern sprocket.
Cranks—Diamond faced. 7-inch.
Sprocket—24-, 26- and 28-tooth front; 7-, 8-, 9- and 10-tooth rear. Regular gear 9- and 26-tooth.
Chain—3-16-inch roller.
Pedals—Motorcycle type.
Saddle—Eagle Easy.
Handle Bars—Motor-bike type, adjustable, with long rubber grips.
Tires—Gendron Roadster single tube, guaranteed. With red studded tread.
 Regularly equipped with fine grain leather tool bag and contents, also splash on front mud guard, also self-acting Motor-bike stand on rear wheel.
Double-Siren Motor-bike horn as shown, extra \$2.35
MODEL No. 31—Men's Bicycle with coaster brake, without horn. Price \$37.50

PIONEER MEN'S ROADSTER.

Specifications.

Frame—22-inch. Option on 20- and 24-inch.
Color—Black. Option on Royal Blue, Tan, Carmine or French Grey. With Aluminum Spear-point fancy head and fork tips.
Crown—Drop-forged.
Rims—Hard maple enameled and striped to match frame. Option on Crescent Steel Rims.
Hubs—Front, New Departure. Rear, New



Departure, Corbin or Morrow Coaster.
Hanger—Fauber Round Special.
Cranks—Round 7-inch.
Sprocket—24-, 26-, 28-tooth front; 7-, 8-, 9-, 10-tooth rear. Regular gear 9- and 26-tooth.
Chain—3-16-inch Roller Chain.
Pedals—Pirate Rat-trap.
Saddle—Troxel 4U.
Handle Bars—No. 25 adjustable, 21-inch with 6-inch drop.
Mud Guards—Steel with drop center. Rolled edge, enameled to match frame.
Tool Bag and Contents—Furnished.
Tires—Reliance Single Tube $1\frac{1}{2}$ -inch, guaranteed.
MODEL No. 25—Men's Bicycle with coaster brake, \$29.50
MODEL No. 25L—Ladies Bicycle with coaster brake, 31.50

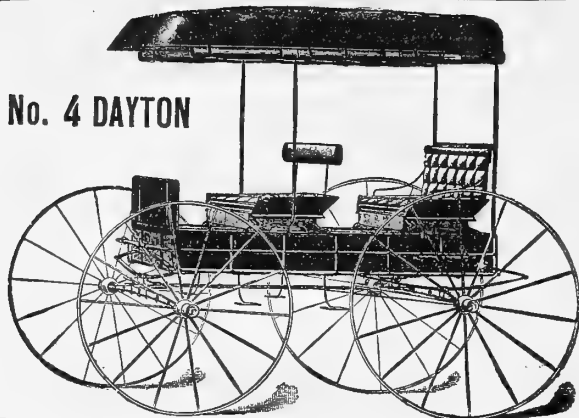
GRITCO WAGONS



Entire wagon made of selected hardwood. Construction closely follows that of regular farm wagon, having bent hounds and adjustable reach. All parts heavily braced and ironed.

	List.	Retail.
Gritco Jr. No. 355, with hand pole.....	\$9.00	\$6.25
Gritco Jr. No. 355, with shafts	10.00	7.00
Gritco No. 356, with hand pole	10.00	7.00
Gritco No. 356, with shafts	11.00	7.75

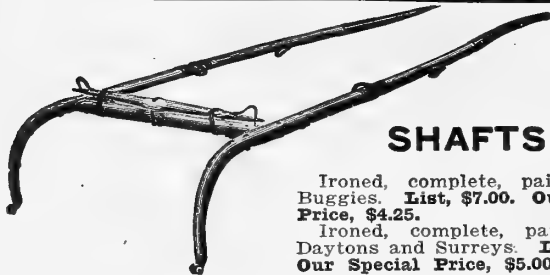
No. 4 DAYTON



Length of body, 5 ft. 10 in.; width, 2 ft. 10½ in.; frame and seats best white ash; panels best No. 1 poplar. Wheels, 3 ft. 9 in. and 3 ft. 5 in. high; 1 1-16 spoke; Warner or Shell band; 1¼ in. steel tire; 1 1-16-in. steel axle; front spring, 1½ in., 4-ply; two back springs, 1¼ in., 4-ply, oil tempered. Gear, best white hickory. Cushions trimmed either in leather or cloth; curtains, 24 oz.; green back, gum. Finished natural wood or painted as desired; hung on Brewster springs.

PRICE.

List.....\$130.00 Retail.....\$75.00
Can also furnish in duplex or side bar at same price.

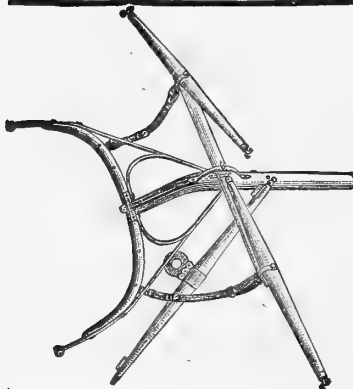


SHAFTS

Ironed, complete, painted, for Buggies. List, \$7.00. Our Special Price, \$4.25.

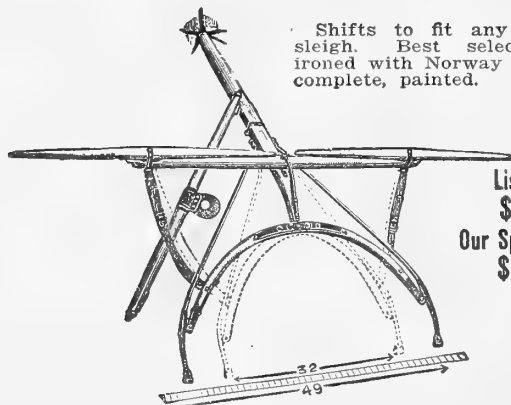
Ironed, complete, painted for Daytons and Surreys. List, \$8.00. Our Special Price, \$5.00.

"Baltimore" Ironed Carriage Pole



Is well ironed, with wrought-iron tees; heavy drop-forged stay irons. In every way suitable for medium grade work. Prices are for Pole complete, which includes neck yoke, double and single trees and check straps. Ironed, complete, painted. List, \$11.00. Our Special Price, \$6.50. Dayton Pole, List, \$12.00. Our Special Price, \$7.00.

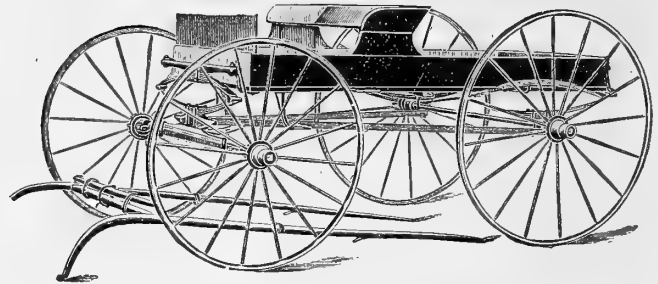
No. 1 PATENTED SHIFTING OR ADJUSTING POLE



Shifts to fit any carriage or sleigh. Best selected timber; ironed with Norway iron. Ironed, complete, painted.

List Price \$16.00
Our Special Price \$10.00

THREE SPRING DELIVERY WAGON



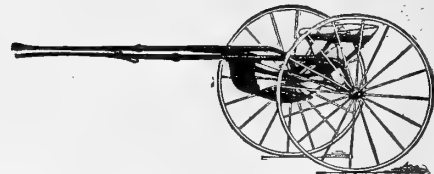
Size of Steel Axle	Tires	Dimensions of Body				Wagon Complete	
		Frnt	Rear	L'th	W'th D'th	No Brakes	
1	1 x ¼	3 3 3 8	7 0 3	1 9 0	400	800	\$83.00
1 ½	1 ½ x 5-16	3 3 3 8	7 0 3	1 9 0	500	1000	\$87.00
Brake for above.....						List, \$5.00; Retail, \$3.00	
Tops for above.....						List, \$40.00; Retail, \$24.00	

DUPLEX SPRING DELIVERY WAGON

Similar to above, except it has a Duplex Spring Gear.

Size of Steel Axle	Tires	Dimensions of Body				Wagon Complete	
		Frnt	Rear	L'th	W'th D'th	No Brakes	
1	1 x ¼	3 3 3 8	7 0 3	1 9 0	400	800	\$79.00
1 ½	1 ½ x 5-16	3 3 3 8	7 0 3	1 9 0	500	1000	\$83.00
Brake for above.....						List, \$5.00; Retail, \$3.00	
Tops for above.....						List, \$40.00; Retail, \$24.00	

LIGHT ROAD CART



No. 10 Light Road Cart, has two-passenger slat seat, slat foot-rack, 1-inch double collar steel axle, ¾-inch wheels, 46 inches high, and hickory shafts. Shipping weight, 125 lbs. List Price, \$24.00. Our Special Price, \$14.00.

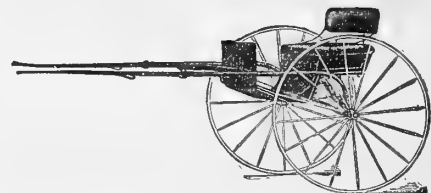
LIGHT ROAD CART

No. 4 ½ Light Road Cart, has low-seat support, two-passenger slat seat spring hung in swinging shackles, ¾-inch wheels, 46 inches high, 1-inch double collar steel axle and hickory shafts. Shipping weight, 125 lbs. List Price, \$27.50. Our Special Price, \$16.00.

HEAVY BREAKING CART

No. 5 Breaking Cart has low-seat support, slat bottom seat, slat foot-rack, spring hung in swinging shackles, 1 ½-inch wheels, 44 inches high, 1 ½-inch double collar steel axle and extra long hickory shafts. Shipping weight, 175 lbs. List Price, \$32.00. Our Special Price, \$20.00.

LIGHT BODY ROAD CART



No. 17A Body Road Cart has 1-inch double collar steel axle, ¾-inch wheels, 46 inches high, wood dash, hinged seat for two passengers, box under seat, lazy back upholstered, drill trimmings and hickory shafts. Shipping weight, 150 lbs. List Price, \$36.00. Our Special Price, \$22.00.

GRIFFITH & TURNER

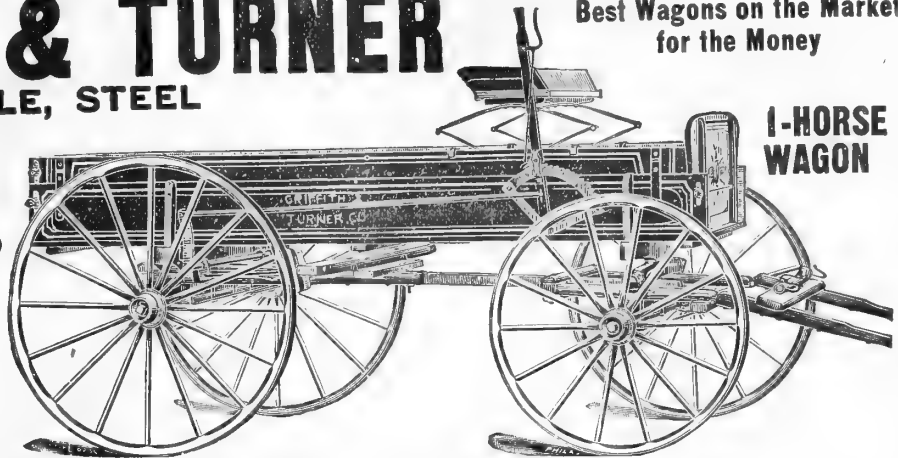
SOLID STEEL AXLE, STEEL SKEIN AND TUBULAR AXLE

WAGONS

We carry the Solid Steel and Steel Skein Wagons in stock, and can furnish the Tubular Axle Wagons at short notice.

Best Wagons on the Market for the Money

1-HORSE WAGON



SPECIAL ONE-HORSE WAGON

Size of St'l Axle	Size of Tubular Axles	Size of Tires	Height			Wheels			Dimensions of Body				Weight	Capacity	Wagon		Complete		Wagon		Complete		Gears Only		Gears Only	
			Front	Rear	St. In.	Front	Rear	St. In.	Length	Width	Depth	St. In.			Front	Rear	St. In.	With List	No Brakes Retail	With List	No Brakes Retail	With List	No Brakes Retail	With List	No Brakes Retail	
1¼	1½	1¼ x5-16	3	2	3	8	9	0	3	6	9	4	550	1000 to 1200	\$65.00	\$40.75	\$71.50	\$44.75	\$60.50	\$38.00	\$54.00	\$33.75				

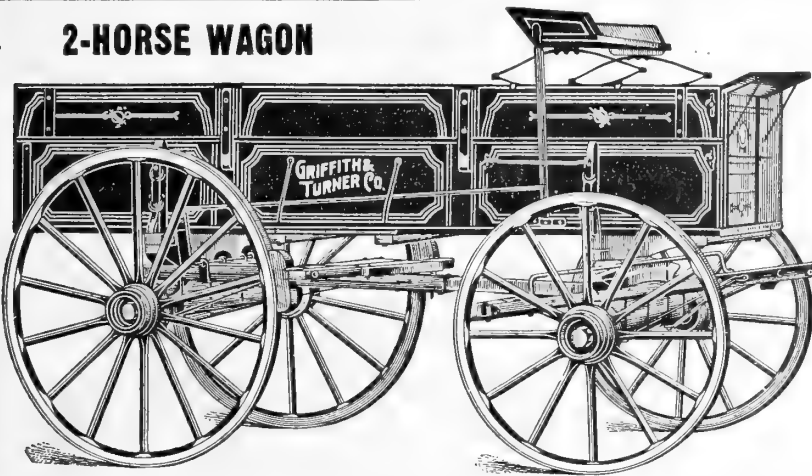
No. 40 ONE-HORSE WAGON

Size of St'l Axle	Size of Tubular Axles	Size of Tires	Height			Wheels			Dimensions of Body				Weight	Capacity	Wagon Complete		Wagon Complete		Gears Only		Gears Only	
			Front Ft.	Front In.	Rear Ft.	Front Ft.	Rear In.	Length Ft.	Width Ft.	Depth In.	List	No Brakes Retail			List	No Brakes Retail	List	With Brakes Retail	List	No Brakes Retail		
1½"	1½"	1½x5-16	3	2	3	8	9	0	3	6	10	4	650	1500 to 1800	\$75.00	\$45.00	\$82.00	\$49.25	\$70.50	\$42.50	\$64.00	\$38.50

For G. & T. One-Horse and No. 40 Wagons with 2-inch tires, add List, \$4.00; Retail, \$2.40.

For G. & T. One-Horse and No. 40 Wagons with tongue instead of shafts, add List, \$5.00; Retail, \$3.00.

2-HORSE WAGON



THESE WAGONS ARE HEAVILY IRONED AND BEACED. THEY ARE MADE OF THE BEST MATERIAL THROUGHOUT. THE WHEELS ARE DIPPED IN BOILING OIL. HAVE ROUND EDGE TIRES, WHICH PROTECT THE FELLOES AND PAINT. THEY ARE VERY LIGHT RUNNING.

FOR TIRES OF EXTRA WIDTH AND THICKNESS, ADD THE FOLLOWING AMOUNTS TO WAGON PRICES BELOW.

For tires wider than regular on Nos. 42, 44 and 46, add List, **\$9.00**; Retail, **\$5.50**, per inch, or fractional part thereof. On Nos. 48, 50 and 52, add List, **\$11.00**; Retail, **\$6.50**, per inch, or fractional part thereof.

For tires thicker than regular, add List, **\$4.50**; Retail, **\$2.75**, for every $\frac{1}{4}$ inch additional thickness on 3 inches wide and upwards. Less than 3 inches wide, add List, **\$2.50**; Retail, **\$1.50**, for every $\frac{1}{8}$ inch additional thickness. **Special Discount for Cash.**

PRICES OF STEEL AND TUBULAR AXLE WAGONS

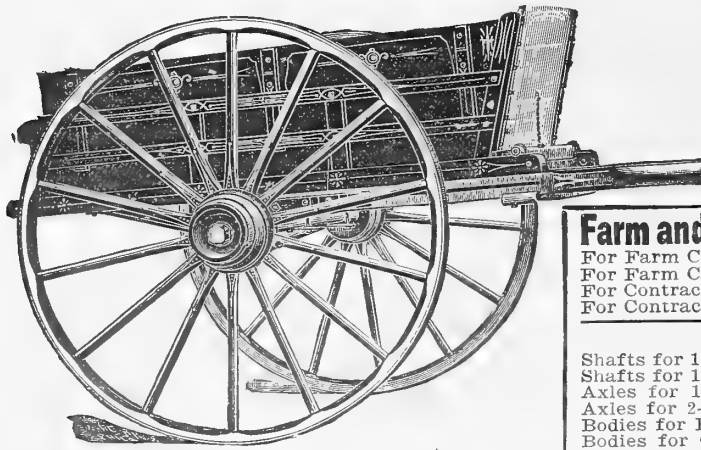
Size of Nos. St'l Axle	Size of Tubular Axles	Size of Tires	Height		Wheels		Dimensions of Body						Weight	Capacity	Wagon Complete No Brakes		Wagon Complete With Brakes		Gears Only With Brakes		Gears Only No Brakes	
			Front Ft. In.	Rear Ft. In.	Length Ft.	Width In.	Depth In.	In.	Ft.	In.	In.	List			Retail	List	Retail	List	Retail	List	Retail	
42 1 1/2	1 7/8 x 8 1/2	1 7/8 x 7-16	3	6	4	0	9	6	3	6	12	6	....	2000 to 2500	\$114.50	\$71.50	\$121.00	\$75.75	\$106.00	\$66.25	\$99.00	\$62.00
44 1 5/8	1 7/8 x 8 1/2	2 x 1/2	3	6	4	0	10	6	3	6	12	6	900	2500 to 3000	129.00	80.75	137.50	86.00	120.00	75.00	113.50	71.00
46 1 7/8	2 1/8 x 9	2 x 1/2	3	6	4	2	10	6	3	6	12	6	1000	3000 to 3500	141.00	88.50	156.00	93.75	132.00	82.50	123.50	77.25
48 2	2 1/8 x 9	2 x 1/2	3	6	4	2	10	6	3	6	12	8	1200	4000 to 4500	3 50.00	93.75	199.50	99.50	180.00	113.75	138.00	88.00
50 2 1/4	2 3/8 x 11 1/2	3 x 3/4	3	6	4	2	Running Gear						1200	6000	175.00	113.75	196.00	122.50	170.00	106.25	159.00	99.50
52 2 1/2	3 1/8 x 12 1/2	3 x 3/4	3	6	4	2	Running Gear						....	8000	....	....	....	....	183.00	114.50	172.00	107.50

PRICES OF STEEL SKEIN WAGONS

Nos.	Size of Axles	Size of Tires	Height		Wheels		Dimensions of Body			Weight	Capacity	Wagon Complete No Brakes		Wagon Complete With Brakes		Gears Only With Brakes		Gears Only No Brakes				
			Front	Rear	Fr.	Rear	Length	Width	Depth			List	Retail	List	Retail	List	Retail	List	Retail			
3...	2½ x 8½	2x ¾	3	2	3	8	9	6	3	6	12	6	800	2500 to 2500	\$114.50	\$71.50	\$121.00	\$75.75	\$106.00	\$66.25	\$99.00	\$62.00
4...	3 x 9	2x ½	3	6	4	0	10	6	3	6	12	6	1100	2500 to 3000	129.00	80.75	137.50	86.00	120.00	75.00	113.50	71.00
5...	3½ x 10	2x ¾	3	6	4	0	10	6	3	6	12	6	1200	3000 to 4000	141.00	88.50	150.00	93.75	132.00	82.50	123.50	77.25
6...	3½ x 11	2x ¾	3	6	4	0	10	6	3	6	12	8	1400	4000 to 5000	150.00	93.75	159.00	99.50	141.00	88.25	132.00	82.50

EXTRAS FOR G. & T. WAGONS

[illegible]



Farm and Contractors' Carts

With 5 and 6-inch Tires and extra heavy Contractors' Carts made specially to order when wanted.

These Carts are very strong, heavily ironed, nicely painted, striped and varnished.

Size of Axle.	Size of Tires.	Diam. of Wheel.	List Price.	Retail Price.
1 1/4 inches.	3 inches.	4 ft. 10 in.	\$72.50	\$45.50
1 1/2 inches.	4 inches.	4 ft. 10 in.	78.50	49.25
2 inches.	3 inches.	4 ft. 10 in.	82.50	51.75
2 inches.	4 inches.	4 ft. 10 in.	88.50	55.31

Farm and Contractors' Cart Wheels

	List Price, Per Pair.	Ret'l Price, Per Pair.
For Farm Cart, 1 1/4-inch axle, 3-inch tire.....	\$36.00	\$21.75
For Farm Cart, 1 1/2-inch axle, 4-inch tire.....	45.00	27.00
For Contractors' Carts, 2-inch axle, 3-inch tire.....	45.00	27.00
For Contractors' Carts, 2-inch axle, 4-inch tire.....	54.00	32.25

	List Price.	Ret'l Price.
Shafts for 1 1/2 or 2-in. Axle Farm Cart, no irons, per pair.....	\$10.00	\$6.50
Shafts for 1 1/2 or 2-in. Axle Farm Cart, with irons, ".....	13.00	8.50
Axles for 1 1/2-inch Axle Farm Cart.....	7.50	5.00
Axles for 2-inch Contractors' Cart.....	12.00	8.00
Bodies for Farm Cart.....	30.00	18.00
Bodies for Contractors' Cart.....	36.00	21.50

AXLE GREASE AND OILS

G. & T., per box.....	\$.06
G. & T., 10-lb. buckets, each.....	.50
G. & T., 15-lb. pails, each.....	.70
G. & T., 25-lb. pails, each.....	.90
Mica, tin boxes, each.....	.08
Mica, 10-lb. pails, each.....	.75
Mica, 15-lb. pails, each.....	.90
Mica, 25-lb. pails, each.....	1.25

POLARINE OIL—For all water-cooled automobiles and gas engines in any weather.

Polarine Oil—1 gal.....	\$.70
Polarine Oil—5 gals.....	2.50

Special Price in barrel lots.

Standard Carriage Axle Oil, per gallon....	\$.75
Mineral Castor Oil, per gallon.....	.60
Eureka Harness Oil, per gallon.....	.75
Cup Grease or Hard Oil, 3-lb. can.....	.40
Cup Grease or Hard Oil, 5-lb. can.....	.60
Gasoline Engine Oil, per gallon.....	.60
Pure Neats Foot Oil, per quart.....	.40
Compound Neats Foot Oil, per gallon....	1.10
Standard Hoof Oil, 1 pint.....	.25
Standard Hoof Oil, 1 quart.....	.40
Standard Hoof Oil, 1 gallon.....	1.25
Perfection Separator Oil, per gallon.....	.75
Perfection Separator Oil, per 5 gallons....	2.50
Harvester Oil, per quart.....	.20
Harvester Oil, per 1/2 gallon.....	.30
Harvester Oil, per gallon.....	.50
Capitol Steam Cylinder Oil, per gallon....	.80
Special Steam Cylinder Oil, per gallon....	.60

HOUSEHOLD LUBRICANT OIL.

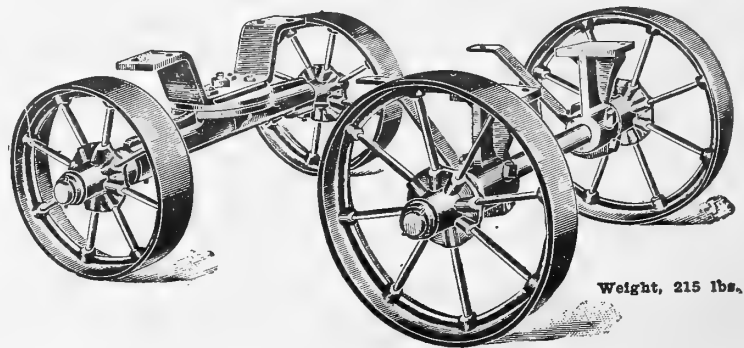
1/4-pint Tin Oilers, with spout.....	\$.10
1/2-pint Tin Oilers, with spout.....	.15

MATCHLESS LIQUID GLOSS.

The Best Polish for Varnished Surfaces.

1 Pint.....	\$.30
1 Quart.....	.50
1/2 Gallon.....	.90
1 Gallon.....	1.40

PONY TRUCK



Weight, 215 lbs.

For mounting small engines. Wheels 12x14 inches high, with 2 or 3-inch tread; steel axles, 1 1/4-inch round; hubs, 4 1/2-inch long; capacity, 2000 pounds. This Gear can be bolted to the skids of engine or a platform may be bolted on. A tongue is furnished with each truck.

Pony Truck, with 2-inch tires.....	List, \$18.00; Retail, \$12.00
Pony Truck, with 3-inch tires.....	List, 20.50; Retail, 13.50

METAL TRUCK WHEELS

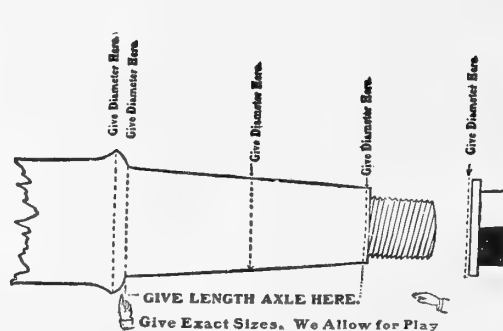


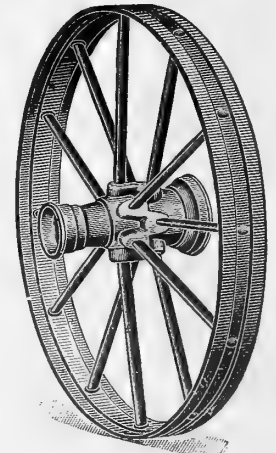
Diagram Showing How to Measure Your Skains

As nearly every set of steel wheels we sell has to be made especially to correspond with measurements of axles for which it is intended, we generally make shipment direct from factory.

PRICES PER WHEEL WITH 4x 1/2 TIRES.

24-inch—Factory List Price,	\$6.50.	Our Special Price,	\$4.00
26-inch—Factory List Price,	6.80.	Our Special Price,	4.25
28-inch—Factory List Price,	7.10.	Our Special Price,	4.50
30-inch—Factory List Price,	7.50.	Our Special Price,	4.75
32-inch—Factory List Price,	8.10.	Our Special Price,	5.00
34-inch—Factory List Price,	8.50.	Our Special Price,	5.35
36-inch—Factory List Price,	9.10.	Our Special Price,	5.75

For 4x 1/2 Tire, prices on application. Wood Wheels, prices on application. Prices on other sizes quoted on application.



OUR HANDY STEEL WHEEL FARM TRUCKS

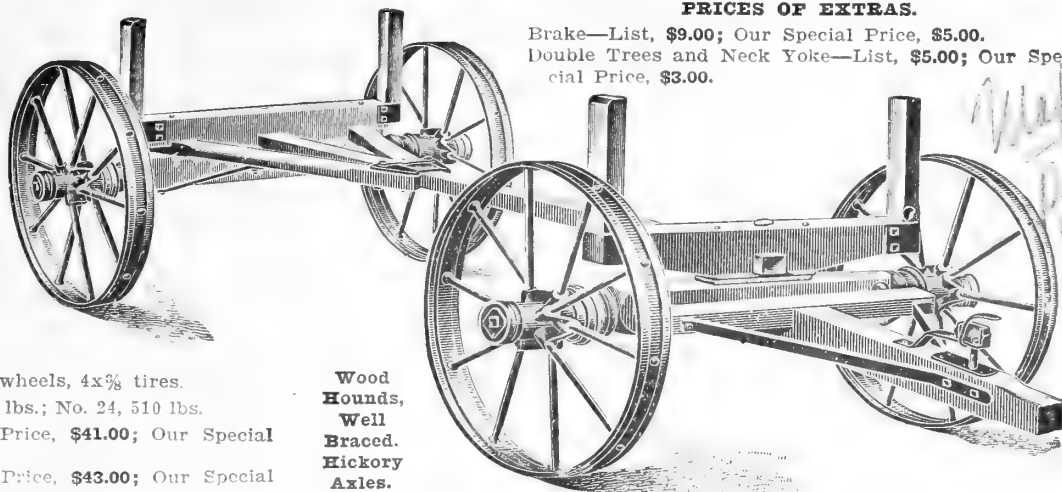
All wood parts hardwood and well painted. Note the grooved tire, which protects the spokes of the wheel, and they last much longer than flat tire wheels. Made in two sizes. No. 22 with 3x9 skeins, capacity 3000 lbs. No. 24 with 3 1/4 x 10 skeins, capacity 4000 lbs.

Both Nos. 22 and 24 Trucks have 28-inch front and 30-inch rear wheels, 4x 3/4 tires.

Weights—No. 22, 475 lbs.; No. 24, 510 lbs.

No. 22 Truck—List Price, \$41.00; Our Special Price, \$25.00.

No. 24 Truck—List Price, \$43.00; Our Special Price, \$26.00.



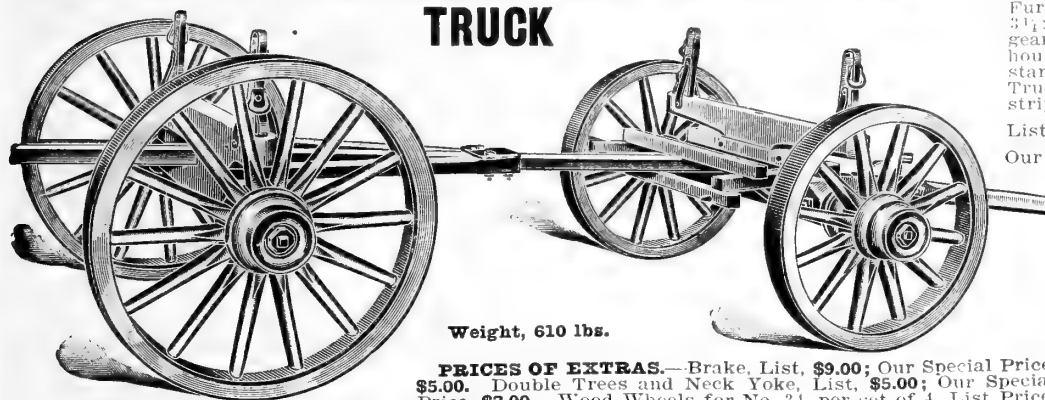
Wood
Hounds,
Well
Braced.
Hickory
Axles.

PRICES OF EXTRAS.

Brake—List, \$9.00; Our Special Price, \$5.00.

Double Trees and Neck Yoke—List, \$5.00; Our Special Price, \$3.00.

OUR No. 34 LOW-DOWN WOOD WHEEL FARM TRUCK



Weight, 610 lbs.

PRICES OF EXTRAS.—Brake, List, \$9.00; Our Special Price, \$5.00. Double Trees and Neck Yoke, List, \$5.00; Our Special Price, \$3.00. Wood Wheels for No. 34, per set of 4, List Price, \$40.00; Our Special Price, \$25.00.

This truck has low-down wood wheels 32 and 36 inches in height, with 4-inch tires. Furnished with hickory axles, 3 1/4 x 10-inch skeins, hardwood gear parts; both front and rear hounds, and has regular wagon standards, ironed and ringed. Truck nicely painted and striped. Capacity 4000 lbs.

List Price.....\$63.00

Our Special Price..... 38.00

Our No. 31 Farm Truck

Very similar to our No. 34 Truck, the difference being that it is built without front hounds and the bolster standards are the style shown on the Steel Wheel Truck illustrated above.

List Price.....\$61.00

Our Special Price.. 37.00

THE OLD DOMINION WAGON

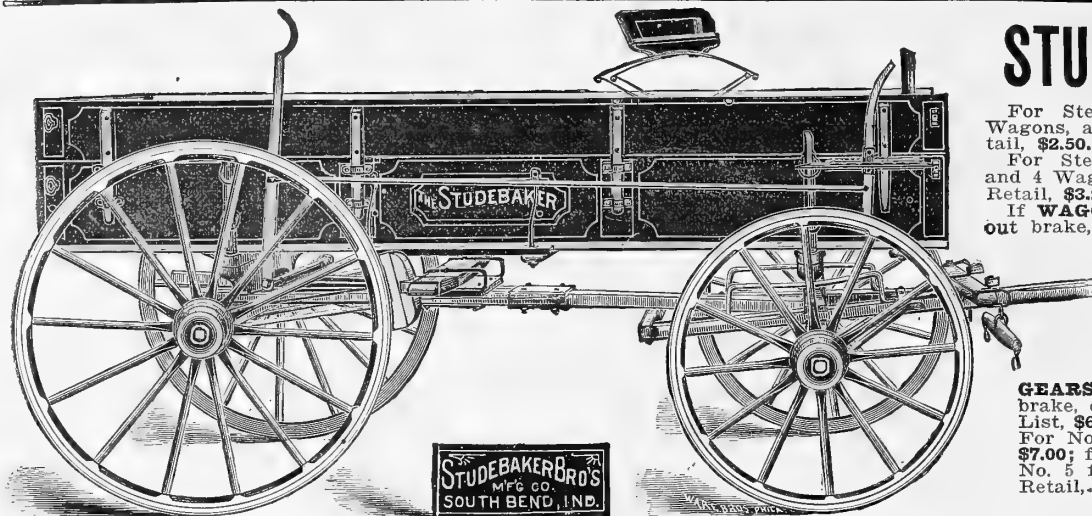
STIFF TONGUE TRUCK.—3 1/4 x 10-inch hickory axle, wood wheels, 36-inch front, 42-inch rear, 3x 3/8-inch tire. A serviceable wagon at a low price.

Weight, 675 lbs.



List Price.....\$82.00

Our Special Price.... 50.00



STANDARD THIMBLE SKEIN FARM WAGON.

STUDEBAKER

For Steel Skeins on No. 2 Wagons, add to List, \$3.00; Retail, \$2.50.

For Steel Skeins on Nos. 3 and 4 Wagons, add to List, \$3.75; Retail, \$3.25.

If **WAGONS** are wanted without brake, deduct from List on No. 2, \$8.50; from Retail, \$7.25. C Nos. 3 and 4, deduct from List, \$9.00; from Retail, \$7.50. On No. 5, deduct from List, \$10.50; from Retail, \$8.85. If

GEARS are wanted without brake, deduct for No. 2 from List, \$6.50; from Retail, \$5.50. For Nos. 3 and 4 from List, \$7.00; from Retail, \$5.90. For No. 5 from List, \$8.50; from Retail, \$7.25.

Size of Skeins.	Height of Wheels.				Size of Tire.	Dimensions of Box.				Approximate		Wagon Complete with brake		Gear only with brake.	
	Front.		Hind.			Lower	Top.	Length.		Weight	Capacity	List Price	Retail Price.	List Price.	Retail Price.
Inches.	Ft.	In.	Ft.	In.	Inches.	In.	In.	Ft.	In.	Lbs.	Lbs.				
2 3⁄4 x 8	3	8	4	4	2 x 7-16	12	8	10	0	850	2000	\$97.00	\$87.25	\$76.00	\$68.50
2 3⁄4 x 8	3	8	4	4	2 1⁄2 x 7-16	12	8	10	0	850	2000	100.00	90.00	79.00	71.25
2 3⁄4 x 8	3	8	4	4	3 x 3⁄8	12	8	10	0	850	2000	101.50	91.50	80.50	72.50
2 3⁄4 x 8	3	8	4	4	4 x 3⁄8	12	8	10	0	850	2000	109.50	98.50	88.50	79.75
3 x 9	3	8	4	6	2 x 1⁄2	13	8	10	6	1000	3500	103.00	92.70	80.00	72.00
3 x 9	3	8	4	6	2 1⁄2 x 1⁄2	13	8	10	6	1000	3500	107.00	96.25	84.00	75.75
3 x 9	3	8	4	6	3 x 1⁄2	13	8	10	6	1000	3500	110.00	99.00	88.00	79.25
3 x 9	3	8	4	6	4 x 1⁄2	13	8	10	6	1000	3500	118.00	106.25	95.00	85.50
3 1⁄4 x 10	3	8	4	6	2 x 5⁄8	14	10	10	6	1100	4000	106.50	96.00	82.50	74.25
3 1⁄4 x 10	3	8	4	6	2 1⁄2 x 1⁄2	14	10	10	6	1100	4000	110.00	99.00	86.00	77.40
3 1⁄4 x 10	3	8	4	6	3 x 1⁄2	14	10	10	6	1100	4000	113.00	101.75	89.00	80.25
3 1⁄4 x 10	3	8	4	6	4 x 1⁄2	14	10	10	6	1100	4000	121.00	109.00	97.00	87.30

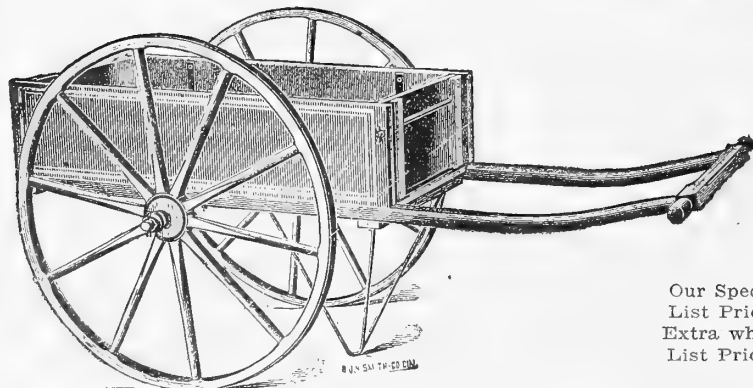
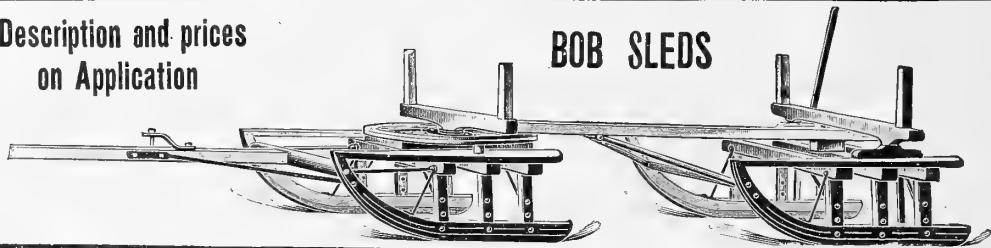
MARYLAND AND PENNSYLVANIA LINCH PIN STEEL SKEIN GEARS WITH TRUSS RODS.

	List.	Retail.
3 1/4 x 10-in. Steel Skein Gear, 3 ft. 8 in. between standards, 4x3/8 tires with Gear Brake.....	\$111.75	\$100.50
3 1/2 x 11-in. Steel Skein Gear, 3 ft. 8 in. between standards, 4x3/8 tires with Gear Brake.....	119.50	107.50
3 3/4 x 12-in. Steel Skein Gear, 3 ft. 8 in. between standards, 4x7/8 tires without Brake.....	133.00	119.75
4 x 12-in. Steel Skein Gear, 3 ft. 8 in. between standards, 4x1 tires without Brake.....	162.00	146.00

For Rubber Bars and Blocks, add to above—List, \$3.00; Retail, \$2.70.

BALTIMORE
PUSH CARTDescription and prices
on Application

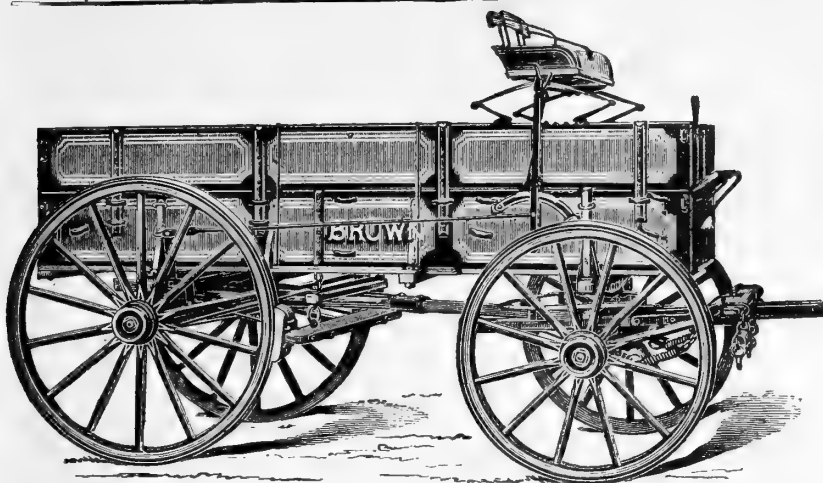
BOB SLEDS



For the merchant, printer, farmer, etc., to have one of these Carts on his premises it will be found a most useful vehicle. There are so many purposes for which they can be employed—carrying bundles, printers' forms, farmers' tools and light implements, etc. It is never out of place, and always ready to pick up at short notice. They are nicely finished; higher wheels, better ironed and altogether superior to anything of the kind on the market. There is now an immense demand for these Carts, but notwithstanding we have placed the price low.

Our Special Price.....	\$7.75
List Price	13.50
Extra wheels, each. Our Special Price.....	2.75
List Price	4.50

BROWN WAGON



Axles are made of dried selected hickory. Brown's Patent Extension Chilled Skeins. These Skeins support the axle where it has the greatest load to bear. Tongue Chains and Stay Chains fitted with springs. The Tongue Chains have a branch chain to prevent jerking and switching of the tongue, and eases the draft on the horses' necks. Wheels all positively soaked in hot oil. Tires never get loose. Write for special circular fully describing these Wagons.

Coil springs are applied to tongue—eases draft on team's neck when chains are forced to control tongue or hold back. They supply the place of the vibrating neck yoke. Yield to pull of chain or branch chain, saving team from jerking of tongue. Branch chains are added to each tongue, practically destroying side jerking and whipping motion. Acts same as neck yoke.

No.	Size of Cast Skein.	Height of Front Wheels.	Height of Rear Wheels.	Size of Tire.	Depth of Box.	Capacity, Pounds.	Wagon Complete with Brake.		Gear only with Brake.	
							List Price.	Retail Price.	List Price.	Retail Price.
00	2 3/4 x 8 1/2	3'8"	4'4"	1 1/2 x 1 1/2	22"	2500	\$98.00	\$87.75	\$76.25	\$68.25
00	2 3/4 x 8 1/2	3'8"	4'4"	2 1/2 x 1 1/2	22"	2500	105.85	94.50	84.10	75.25
1	3 x 9	3'8"	4'4"	1 1/2 x 5/8	24"	4000	101.00	90.50	79.25	71.00
1	3 x 9	3'8"	4'4"	3 x 5/8	24"	4000	113.35	101.50	91.60	82.00
1	3 x 9	3'8"	4'4"	4 x 5/8	24"	4000	122.45	109.50	100.70	90.25
2	3 1/4 x 10	3'8"	4'4"	1 1/2 x 5/8	26"	4500	104.00	93.00	82.25	73.50
2	3 1/4 x 10	3'8"	4'4"	3 x 5/8	26"	4500	116.35	104.00	94.60	84.75
2	3 1/4 x 10	3'8"	4'4"	4 x 5/8	26"	4500	125.45	112.25	103.70	92.75

All of above Complete Wagons have Seats and Gear Brakes.

Following Special Gears have Linch Pin Steel Skeins, Gear Brakes, and Nos. 3, 4 and 5 have Side and Back Action Brakes with Round Coupling Poles:

No.	Size	Height of Front Wheels.	Height of Rear Wheels.	Size of Tire.	Depth of Box.	Capacity, Pounds.	List Price.	Retail Price.	List Price.	Retail Price.
2	3 1/4 x 10	3'8"	4'4"	4 x 5/8	...	4500	...	...	\$110.00	\$98.00
3	3 1/2 x 11	3'8"	4'4"	4 x 3/4	...	5500	...	...	130.00	119.00
4	3 3/4 x 12	3'8"	4'4"	4 x 7/8	...	6500	...	...	155.00	139.75
5	4 x 12	3'8"	4'4"	4 x 1	...	7500	...	...	170.00	153.50

Following Solid Steel Axle Gears have Side Brakes and Round Coupling Poles:

No.	Size	Height of Front Wheels.	Height of Rear Wheels.	Size of Tire.	Depth of Box.	Capacity, Pounds.	List Price.	Retail Price.	List Price.	Retail Price.
No. 1—1 1/2"	Solid Steel Axle Gear with 3x3/4" Tires, Side Brake.								\$99.90	\$89.25
No. 2—1 1/2"	Solid Steel Axle Gear with 3x3/4" Tires, Side Brake.								102.90	92.00
No. 3—2 1/4"	Solid Steel Axle Gear with 3x3/4" Tires, Side Brake.								110.90	99.00
No. 4—2 1/4"	Solid Steel Axle Gear with 3x3/4" Tires, Side Brake.								130.30	116.50

STUDEBAKER Patent Steel Skeins

Revised Price List PATENT STEEL SKEINS.



No.	Size.	With Boxes, per set.	
		With Nuts, Price List.	Boxes only, per set. Price List.
2	2 1/2 x 8"	\$5.80	\$1.60
3	2 3/4 x 8"	6.10	1.80
6	3 x 9"	6.50	2.00
9	3 1/4 x 10"	7.50	2.20
11	3 1/2 x 11"	8.50	2.40
14	3 3/4 x 12"	10.00	2.50
15	4 x 12"	12.00	2.75
17	4 1/2 x 13"	18.00	3.60

No.	Size.	With Linch Pins, Price List.	
21	3 1/4 x 10"	\$7.50	2.20
23	3 1/2 x 11"	8.50	2.40
25	3 3/4 x 12"	10.00	2.50
26	4 x 12"	12.00	2.75

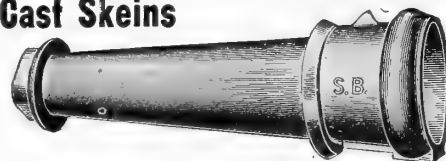
Made of the best grade of plate steel. Solid extension back of the collar keeps the wet and grease from working in on axle. Extension back of collar covers all tapering portions and more of the wood of the axle than any other skein.

STEEL SKEINS FOR PETER SCHUTTLER WAGONS.

Size.	Skein Only, with Nut or Linch Pin, no Box, each.	Box Only, each.
3 1/4 x 10"	\$2.15	\$.55
3 1/2 x 11"	2.30	.60
3 3/4 x 12"	2.70	.70
4 x 12"	3.30	.80
4 1/4 x 12"	3.50	.90
4 1/2 x 13"	4.90	1.20

S. B. Trade Cast Skeins

Standard Price List S. B. Trade Cast Skeins.



No.	Size.	Cast Skeins, with Boxes.		Boxes Only.	
		List, Per Set.	Retail, Per Set.	List, Per Set.	Retail, Per Set.
9	2 1/2 x 8"	\$4.75	\$4.00	\$1.58	\$1.50
10	2 3/4 x 8"	5.25	4.25	1.75	1.60
13	3 x 9"	6.00	4.50	2.00	1.80
16	3 1/4 x 10"	7.50	5.00	2.50	2.00
19	3 1/2 x 11"	8.30	5.50	2.77	2.20
22	3 3/4 x 12"	9.40	6.25	3.14	2.35
23	4 x 12"	10.60	7.00	3.54	2.50

All sizes, from 2 1/2 x 8 to 4 x 12, inclusive, are made with truss attachment, as shown in cut. These skeins are made of a better quality of iron than the ordinary trade cast skeins.

PATENT TRUSS CAST SKEINS AND BOXES FOR STUDEBAKER WAGONS.

No.	Size.	with nuts, per set.	List.
No. 4—Size, 2 3/4 x 8"	with nuts, per set.		\$5.25
No. 5—Size, 3 x 9"	with nuts, per set.		6.00
No. 6—Size, 3 1/4 x 10"	with nuts, per set.		7.50
No. 7—Size, 3 1/2 x 11"	with nuts, per set.		8.30

Less 20 per cent. Retail from above List.

CAST AND STEEL SKEINS FOR BROWN WAGONS.

Size.	Cast Skeins, patent extension for bolt or clip, no box.	Fach.
2 1/2"	Cast Skeins, patent extension for bolt or clip, no box.	\$1.05
3"	Cast Skeins, patent extension for bolt or clip, no box.	1.30
3 1/4"	Cast Skeins, patent extension for bolt or clip, no box.	1.30
3 1/2"	Steel Skeins, long sleeve, no box.	2.10
3 3/4"	Steel Skeins, long sleeve, no box.	2.50
4"	Steel Skeins, long sleeve, no box.	3.00

Wood Single, Double and Tripletrees



26-inch Southern Singletrees	\$.25
28-inch Extra Nailed Singletrees	.33
28-inch Extra Nailed, 3 Hooks, Singletrees	.40
30-inch Heavy Singletrees	.50
32-inch Heavy Singletrees	.55
34-inch Heavy Singletrees	.60
36-inch Heavy Singletrees	.75
Wagon Singletrees, 36 inches	.75
36-inch Southern Doubletrees	.75
36-inch Heavy Doubletrees	.90
40-inch Heavy Doubletrees	1.00
Extra Heavy Tripletrees	2.25



WOOD NECK YOKE

No. 6.—40 inches	\$.75
No. 6.—48 inches	1.00

REPAIR LINKS AND RINGS

OVAL LAP OR OPEN RINGS.

$\frac{1}{2}$ x2 $\frac{1}{2}$, 8c. ea.; $\frac{5}{8}$ x3, 12c. ea.

CHAIN REPAIR LINKS.

10-2, 15c. doz.; 10-1, 20c. doz.

SIDE OPEN LAP LINKS.

$\frac{1}{2}$ x2 $\frac{1}{2}$, 8c. each; $\frac{5}{8}$ x2 $\frac{1}{2}$, 10c.

each; $\frac{5}{8}$ x3, 12c. each.



WAGON, SINGLE AND DOUBLETREES

Wagon Singletrees, No. 9 $\frac{1}{2}$, each	\$.75
Wagon Doubletrees, No. 12 $\frac{1}{2}$, each	1.10
Doubletrees and Singletrees with neck yoke for low-down wagon trucks, per set	2.75

Set of Welded Clips

CLIPS FOR DOUBLETREES.
No. 77.—Southern; one $\frac{5}{8}$ -in. Center Clip and Hook, welded, with $\frac{1}{2}$ -in. hook and two $\frac{1}{2}$ -in. End Clips, welded. **List, per doz., \$3.69. Set, 25c.**
No. 76.—Pennsylvania; one $\frac{3}{4}$ -in. Center Clip and Hook, welded, with $\frac{3}{4}$ -in. Hook and two 9-16-in. End Clips, welded. **List, per doz., \$5.38. Set, 40c.**

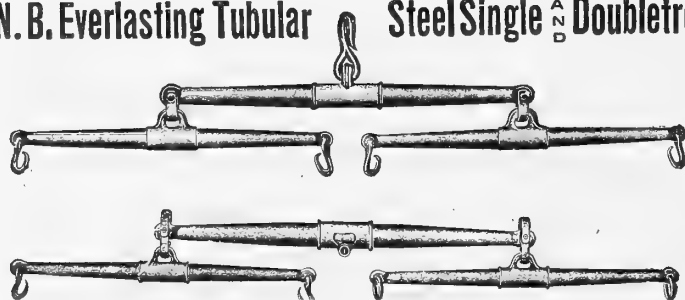
CLIPS FOR SINGLETREES.
No. 75.—One Center $\frac{1}{2}$ -in. Clip, welded, and two $\frac{3}{8}$ -in. End Clips, welded, with 5-16-in. Hooks, as used on our 28-in. Singletrees. **List, per doz., \$2.59. Set, 20c.**
No. 74.—One Center 9-16-in. Clip, welded, and two 7-16-in. End Clips, welded, with $\frac{3}{8}$ -in. Hooks. **List, per doz., \$3.21. Set, 25c.**

No. 73.—One Center $\frac{3}{4}$ -in. Clip, welded, and two 7-16-in. End Clips, welded, and $\frac{3}{4}$ -in. Hooks, as used on our 34 and 36-in. Heavy Singletrees. **List, per doz., \$3.33. Set, 30c.**

No. 72.—One Center $\frac{3}{4}$ -in. Clip, two $\frac{1}{2}$ -in. End Clips, with 7-16-in. Hooks. **List, per doz., \$4.76. Set, 40c. CLIPS FOR TRIPLETREES—No. 76.**—Tripletree Clips. **Per set, 50c.**



N.B. Everlasting Tubular Steel Single and Doubletrees



Steel Farm Wagon Doubletrees in Sets Complete. Pattern No. 217			
No. 1—For regular farm wagons. Capacity, 4000 pounds; Evener, 48 inches; Singletrees, 34 inches	Doz. Sets.	Each.	Set.
No. 2—For regular farm wagons. Capacity, 6000 pounds; Evener, 48 inches; Singletrees, 36 inches	Doz. Sets.	Each.	Set.
Singletrees for Pattern No. 217.			
No. 1—34 inches	Doz.	Each.	Set.
No. 2—36 inches	Doz.	Each.	Set.
Contractors' Steel Doubletrees. Pattern Somewhat Similar to No. 217.			
No. 2—Evener, 48 inches over all; Whiffletrees, 36 inches over all	Doz.	Each.	Set.
Steel Neck Yoke. Pattern No. 204.			
No. 3—Length 44 inches over all	Doz.	Each.	Set.

Tubular Steel Three-Horse Hitch or Tripletree.

Size 1				Size 2			
{ Evener 40 in.		List.		{ Evener 45 in.		List.	
{ Equalizer 28 in.		Doz. Sets.		{ Equalizer 32 in.		Doz. Sets.	
{ Singletrees 26 or 28 in.		Single Set.		{ Singletrees 30 in.		Single Set.	
		\$70.50				\$90.00	

Southern Special Tubular Steel Double and Singletrees. For Plows and Cultivators.

List Price, Retail.				List Price, Retail.			
Dozen.		Each.		Dozen.		Each.	
No. 2—34-in. Doubletree		\$12.00		No. 3—36-in. Doubletree		\$13.75	
No. 206B—26-in. Singletree		7.50		No. 206B—30-in. Singletree		10.20	
No. 206B—28-in. Singletree		8.00		No. 206B—32-in. Singletree		10.80	

U SINGLE, DOUBLE AND TRIPLETREES.

Prices of Singletrees, Regular Hooks, 24-inch, 35c.; 26-inch, 40c.; 28-inch, 45c.; 30-inch, 50c. Singletrees with Malleable Hooks, 24-inch, 40c.; 26-inch, 45c.; 28-inch, 50c.; 30-inch, 60c. Doubletrees with Hooks, 36-inch, 80c.

Steel Tripletree Sets, complete, per set of 6 pieces, \$4.00.

Gamble Improved Three-Horse Equalizer No. 7

Right Hand Only.

This equalizer, while simple in construction, is strong and durable; is perfect in equalization, and absolutely removes all side draft. Can be changed very quickly from a three-horse to a doubletree by removing the long bar. **Price, \$5.50.**

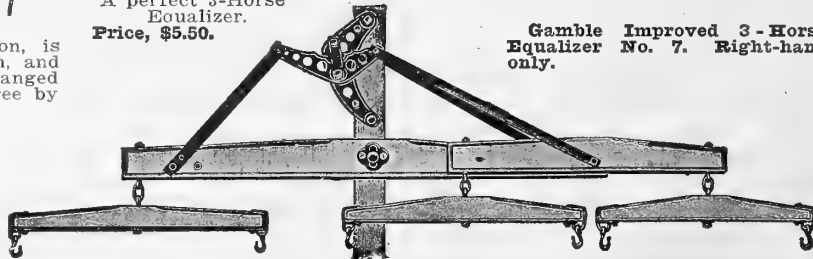
New Gamble Four-Horse Equalizer No. A1

Right Hand Only.

This equalizer is similar to the above, except fitted for four horses instead of three. It is perfect in equalization, and is made of good strong material. **Price, \$6.00.**

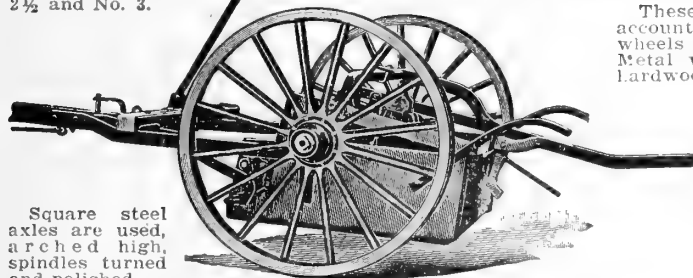
A perfect 3-Horse Equalizer.
Price, \$5.50.

Gamble Improved 3-Horse Equalizer No. 7. Right-hand only.



HASLUP WHEEL SCRAPERS

Snatch Rod regularly furnished with No. 2½ and No. 3.



Square steel axes are used, arched high, spindles turned and polished.

These scrapers are very popular with the contractor trade on account of their splendid construction and convenience. The wood wheels are made of thoroughly seasoned stock and are very strong. Metal wheels can be furnished on order. Tongues, best quality hardwood, heavily ironed, with double steel draft bars.

Size of Bowl.

Size.	Capacity.	Long.	Wde.	De'n.	Wheels.	Tire.	Axle.
No. 1	9 Cu. ft.	36"	36"	12"	36"	3x½"	1½"
No. 2	13 Cu. ft.	37"	38"	13½"	40"	3x½-16"	1½"
No. 2½	14½ Cu. ft.	41"	38"	14"	44"	3x½-16"	1½"
No. 3	17 Cu. ft.	41"	41"	16"	44"	3x½-16"	1½"
No. 1	—Weight, 450 lbs.						Price, \$32.00
No. 2	—Weight, 600 lbs.						Price, 41.50
No. 2	—With Snatch Rod.						Price, 43.00
No. 2½	—With Snatch Rod, weight 675 lbs.						Price, 44.50
No. 3	—With Snatch Rod, weight 750 lbs.						Price, 49.00
Wood Doubletrees and Neck Yoke, \$3.00 extra.							

The No. 24 Iron Beam, Right Hand Contractors' Plow

Strong, heavy. Furnished with either cast or steel cutter shares; with draft iron running from clevis to beam. With wheel jointer or hanging coulter as desired. R. H. only.

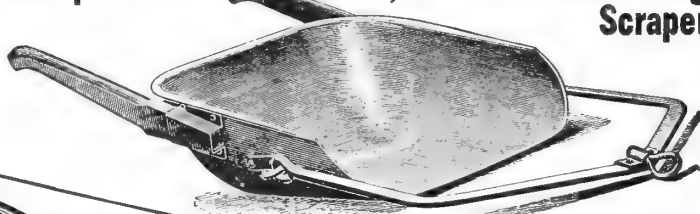
Oliver's Latest Pattern, Road and Grading Plow, No. 24. IRON BEAM.



Price, Plain, \$16.00; with Wheel, \$17.00. Above prices include one extra Share.

Haslup Round

Back, Solid Pressed Drag Scraper



PRICES WITH 2 STEEL RUNNERS.

Size.	Capacity.	Weight.	Price.
No. 1	7 Cu. ft.	100 lbs.	\$5.75
No. 2	5 Cu. ft.	90 lbs.	5.50
No. 3	3½ Cu. ft.	80 lbs.	5.25

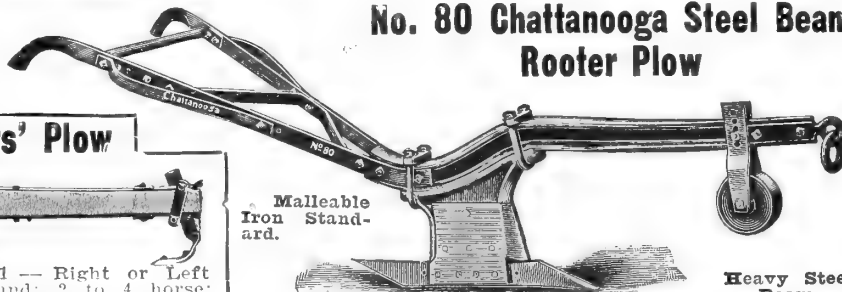
For extra Bottom Plate add 50c.

The best Drag Scrapers made on account of construction, weight and quality of material.

REPAIRS FOR CONTRACTORS' PLOWS. Price List on Page 97.

Contractors' Tubular Steel Double and Singletrees and Neck Yokes. See page 163.

No. 80 Chattanooga Steel Beam Rooter Plow



Malleable Iron Standard.

Heavy Steel Beam.

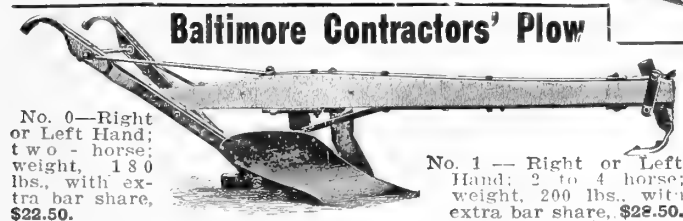
Extra long steel handles, well braced. Removable side plates and steel bar point interchangeable with No. 81 Rooter Plow.

Weight, 225 lbs. Price, \$25.00

No. 81 Chattanooga Steel Beam Rooter Plow

Similar to the No. 80 above, except it has an iron beam. Weight, 375 lbs. Price, \$25.00

Baltimore Contractors' Plow



No. 0—Right or Left Hand; two - horse; weight, 180 lbs., with extra bar share, \$22.50.

No. 1 — Right or Left Hand; 2 to 4 horse; weight, 200 lbs., with extra bar share, \$22.50.

No. 2—Right or Left Hand; 4 to 6-horse; with extra bar share..... \$33.50
 No. 0—Right or Left Hand Bar Share..... 4.00
 No. 1—Right or Left Hand Bar Share..... 4.50
 No. 2—Right or Left Hand Bar Share..... 5.00

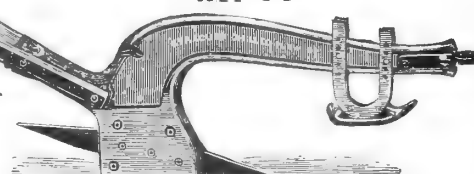
Syracuse Contractors' Plow No. 1

One of the best two-four horse contractors' plows. A great favorite.



Hard iron wearing parts. Extra heavy beam, share and strip. Steel wheel standard. Turn furrow 5 to 9 inches deep, 12 to 15 inches wide. For general grading purposes. Two to four-horse. Weighs, 185 lbs. with wheel. \$15.00.

Syracuse Pavement Plow No. 98

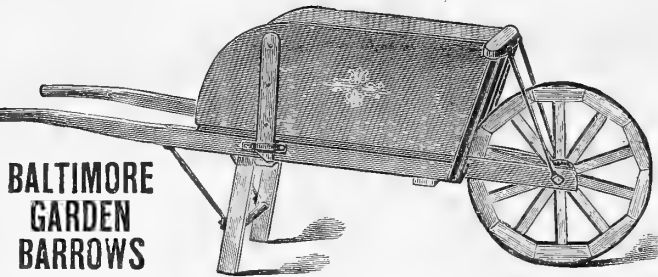


Adjustable and double-bar steel point. Adjustable shoe in place of wheel. Loop handle wear irons. Very strong. Specially adapted for tearing cobblestones and macadam pavements. Four or six-horse. Weight, 265 lbs. Without extra point. Price, \$30.00.

SYRACUSE CONTRACTORS' PLOW No. 99

Four to Eight Horses. Weight, with Shoe, 310 lbs. Without extra Share, \$35.00.

BALTIMORE GARDEN BARROWS



Made of seasoned wood, double frames, firmly bolted, iron braced and so constructed that by removing one bolt (the axle) and two nuts they can be folded flat down and shipped at lowest rate of freight.

No. 4, MEDIUM SIZE OR MAN'S BARROW.

Inside measurement of box—Width at wheel, 19½ inches; depth, 11 inches; width at handles, 23¾ inches. Length of handles, 48 inches; wheel, diameter, 18 inches; tire, 1¼x3-16-inch; spokes, 1x1 inch; 8 spokes. Sides painted green, balance of barrow red, sides striped. Weight, 50 lbs. **Wood Wheel, List Price, \$6.00; Our Special Price, \$3.75. Steel Wheel, List Price, \$6.50; Our Special Price, \$4.00.**

No. 5, LARGE SIZE OR MAN'S BARROW.

Inside measurement of box—Width at wheel, 21 inches; depth, 12 inches; width at handles, 23¾ inches. Length at handles, 51 inches. Wheel diameter, 18 inches; tire, 1¼x3-16 inches; spokes, 1x1¼ inches. Weight, 60 lbs. Finished as above. **Wood Wheel, List Price, \$6.80; Our Special Price, \$4.25. Steel Wheel, List Price, \$7.30; Our Special Price, \$4.50.**

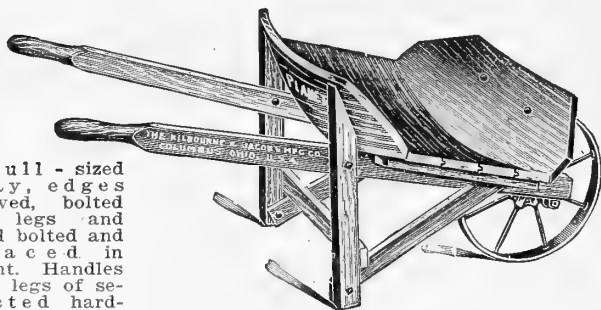
No. 1 Special Garden Barrow

Size—30 inches long, 24 inches wide in front, 25 inches in back. Sideboards—12 inches high, 30 inches long. Handles—5½ feet long, 2¼x1½ inches. Wheel—21 inches diameter, 6 spokes. Hub—3-inch diameter in center. 2-inch diameter at ends.

No. 1 Barrow, with 1½-inch tread. Weight, 60 lbs. Six crated in one package, 56½ cubic feet.

Wood Wheel, List Price, \$7.80; Our Special Price, \$4.75. Steel Wheel, List Price, \$8.30; Our Special Price, \$5.00.

The Baltimore Canal Barrow



Full-sized tray, edges shaved, bolted to legs and well bolted and braced in front. Handles and legs of selected hard-wood. wheels painted. Furnished in both wood and steel wheel.

Wood Wheel, List Price, \$3.50; Our Special Price, \$2.25. Steel Wheel, List Price, \$3.80; Our Special Price, \$2.50.

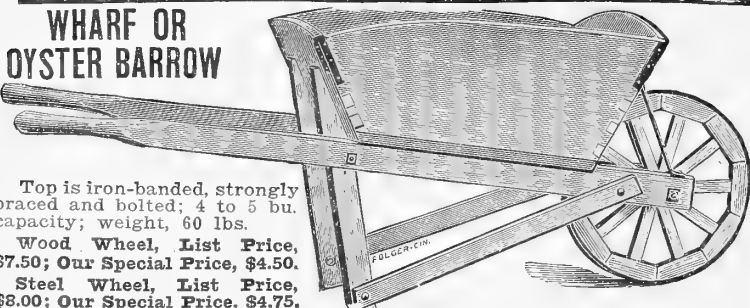
Weight, with wood wheel, 45 lbs.; weight, with steel wheel, 48 lbs.

The Plain Bolted Canal Barrows

Ordinary size; bent tray; legs bolted to handles and well braced. Furnished with wood or steel wheel. Weight, with wood wheel, 40 lbs.; weight, with steel wheel, 45 lbs.

Wood Wheel, List Price, \$3.00; Our Special Price, \$2.00. Steel Wheel, List Price, \$3.20; Our Special Price, \$2.25.

WHARF OR OYSTER BARROW

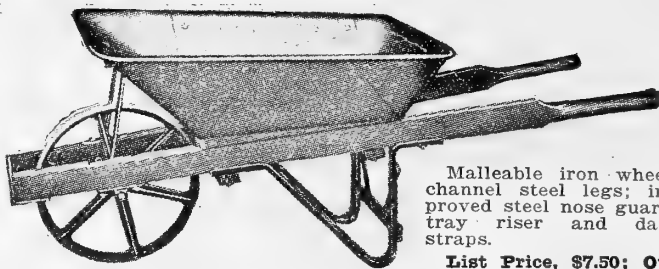


Top is iron-banded, strongly braced and bolted; 4 to 5 bu. capacity; weight, 60 lbs.

Wood Wheel, List Price, \$7.50; Our Special Price, \$4.50.

Steel Wheel, List Price, \$8.00; Our Special Price, \$4.75.

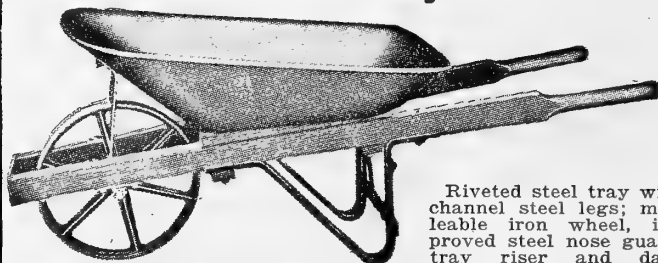
Solid Pressed Steel Tray Barrow



Malleable iron wheel; channel steel legs; improved steel nose guard; tray riser and dash straps.

List Price, \$7.50; Our Special Price, \$4.50.

Riveted Steel Tray Barrow



Riveted steel tray with channel steel legs; malleable iron wheel, improved steel nose guard, tray riser and dash straps.

Capacity, 4 cubic feet; weight about 65 pounds.

List Price, \$8.00; Our Special Price, \$4.50.

All Steel Barrow

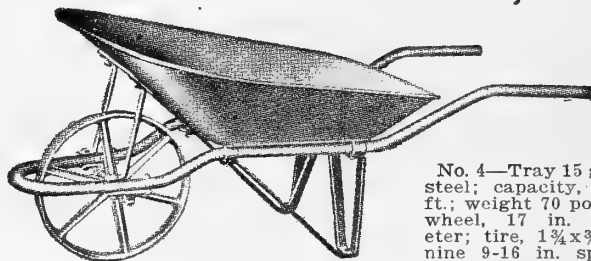


No. AX All-Steel Tubular Frame Barrow.

List Price, \$7.00.

Our Special Price, \$4.00.

Tubular Frame Solid Pressed Steel Tray Barrow



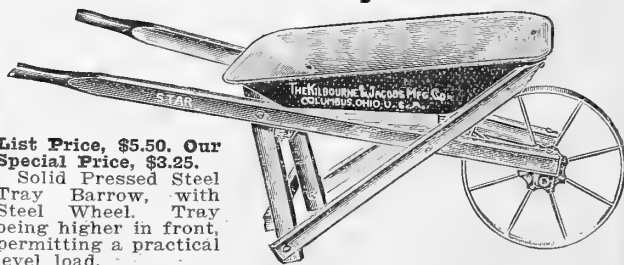
No. 4—Tray 15 gauge steel; capacity, 3 cu. ft.; weight 70 pounds; wheel, 17 in. diameter; tire, 1¼x3 in.; nine 9-16 in. spokes, shouldered and riveted; axle, ¾ in. For moving earth, ashes and light work.

List Price, \$8.00. Our Special Price, \$4.75.

No. 5—Tray, 14 gauge, steel; capacity, 5 cubic feet; weight, 85 lbs.; mounted on same frame and wheel as No. 4. For general purposes and light running. It will stand hard usage.

List Price, \$9.00; Our Special Price, \$5.25.

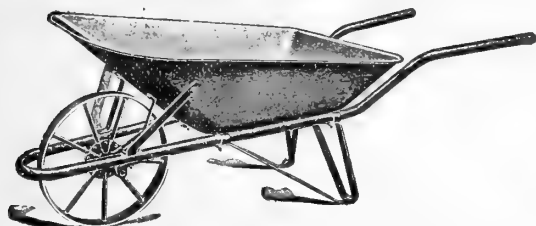
Star Steel Tray Barrow



List Price, \$5.50. Our Special Price, \$3.25.

Solid Pressed Steel Tray Barrow, with Steel Wheel. Tray being higher in front, permitting a practical level load.

SOLID PRESSED STEEL TRAY COAL AND COKE BARROW No. 10



One-piece tubular steel frame extending around in front of wheel. Frame strongly braced and well ironed. Tray of best quality steel, with wired edge. Size No. 10—Gauge of steel in tray, 13; length of top of tray, 41½ in.; width of top of tray, 33 in.; depth at wheel, 12 in.; depth at handle, 6 in.; capacity, 6 cubic feet; weight, 110 lbs. List Price, **14.00**; Retail, **\$8.00**.

Steel Wheels. List Price, **\$2.60**; Retail, **\$1.50**. Extra Trays. List Price, **\$9.00**; Retail, **\$5.00**.

STRAIGHT HANDLE STONE BARROW

Strong, well made, iron strapped over bottom, and well bolted together. Handles 6 feet long; legs, 12 inches long; bottom, 1¼ inches thick by 23 inches wide by 27 inches long; dash, 10 inches high; weight, 64 pounds. List Price, **\$7.00**; Retail, **\$4.00**.

Straight Handle Brick Barrow. List Price, **\$7.00**; Retail, **\$5.50**.

PLAIN PLATFORM TRUCK

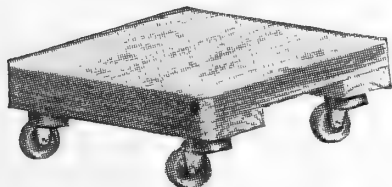


We are prepared to quote special prices on Trucks of every description. If you want anything special, write us for prices.

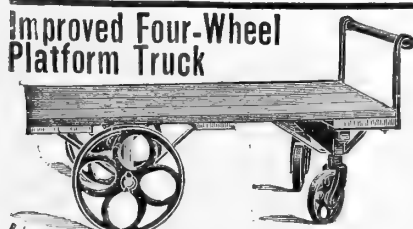
No.	Size of Platform.	Wgt. Lbs.	Diam. Ins.	List Price.	Retail.
82	2 ft. 4 in. by 3 ft. 4 in.	100	7½	\$14.00	\$10.00
83	2 ft. 6 in. by 3 ft. 6 in.	115	7½	15.00	10.75
84	3 ft. by 4 ft.	125	8½	17.00	12.00

Can furnish Special Trucks at lowest prices; also Truck Wheels. Write for prices.

HANDY FOUR-WHEEL TRUCK



For store use. It is indispensable for moving barrels, boxes, etc., about the store. It will soon pay for itself. List Price, **\$2.50**; Retail, **\$1.50**.



No.	Size Platform	Diam. Wht.	Diam. Caster	Weight	List Price	Retail
No. 1	2x4 ft.	12 in.	6 in.	120 lbs.	\$25.00	\$17.50
No. 21	3x5 ft.	18 in.	9 in.	200 lbs.	35.25	25.00

For Canning House, Railroad Stations and Warehouse. Cheap, strong and well made.

CONCRETE AND MORTAR BARROWS



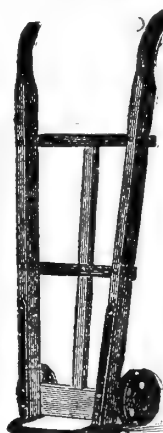
Made especially to carry a full load of soft concrete or mortar without slopping

4 cubic feet.
Weight, 75 lbs.

No.	List Price.	Retail Price.
No. 115—Deep, Narrow Tray, straight front.....	\$8.50	\$5.00
No. 444—Deep, Narrow Tray, rounded front and corners..	9.00	5.25

EXTRAS FOR BARROWS.

	List Price.	Our Spec'l Price.
Wood Wheels for Nos. 4 and 5 Garden Barrows	\$2.00	\$1.25
Steel Wheels for Nos. 4 and 5 Garden Barrows	2.40	1.50
Wood Wheels for No. 1 Garden Barrow..	2.40	1.50
Steel Wheels for No. 1 Garden Barrow..	2.50	1.75
Steel Wheels for Nos. A 4 and B 5.....	2.40	1.50
Steel Wheels for Solid Pressed Steel Tray Barrow	2.00	1.25
Steel Wheels for No. 10 Barrow.....	3.20	2.00
Wood Wheels for Canal Barrow.....	1.50	1.00
Steel Wheels for Canal Barrow.....	2.00	1.25
Tray—No. 4	3.20	2.00
Tray—No. 5	4.00	2.50



BALTIMORE STORE TRUCK.

STORE TRUCKS BALTIMORE STORE TRUCK

List Price, **\$3.00**.....Retail, **\$2.00**

NEW YORK PATTERN

HALF STRAPPED.			FULL STRAPPED.		
No.	List Price.	Retail Price.	No.	List Price.	Retail Price.
No. 1.....	\$5.00	\$3.00	No. 1.....	\$6.00	\$3.60
No. 2.....	6.00	3.60	No. 2.....	7.00	4.20
No. 3.....	7.30	4.50	No. 3.....	8.50	5.25
No. 4.....	8.70	5.25	No. 4.....	10.00	6.00
No. 5.....	10.00	6.00	No. 5.....	11.50	6.90

NEW YORK PATTERN.—SIZES.

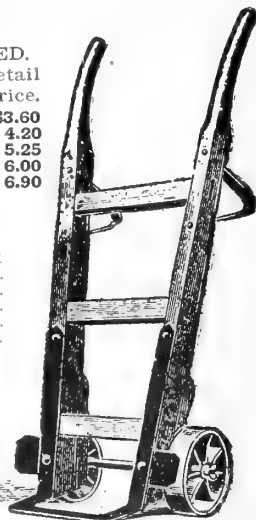
No.	Length Handles	Width Nose	Width at Bar	Upper Diam. Wht.	Weight
No. 1	4'0"	12½"	18"	8"	42 lbs.
No. 2	4'5"	14"	19½"	9½"	44 lbs.
No. 3	4'8"	15"	21"	9½"	72 lbs.
No. 4	5'0"	16"	22½"	11"	85 lbs.
No. 5	5'3"	17"	24"	11"	90 lbs.

BARREL TRUCKS

No.	List Price.	Retail Price.	No.	List Price.	Retail Price.
No. 1,	\$6.90	\$4.00	No. 4,	\$10.00	\$6.00

COTTON TRUCKS

No.	List Price.	Retail Price.
No. 3	\$8.00	\$5.00



NEW YORK PATTERN.

DIMENSIONS AND PRICES CAST-IRON TRUCK WHEELS

No.	Lbs. Wt.	Hgt. In.	Face. In.	Hub. In.	Bore. In.	List Price.	Retail Price.
No. 0	4½	6½	1½	2½	¾ x ¾	\$0.54	\$0.35
Nos. 1 and 2.....	7½	8	2	2½	¾ x ¾	.87	.60
No. 3	12¾	9½	2½	3¼	¾ x 1	1.52	1.00
Nos. 4 and 5.....	17½	11	3	3¾	1x1½	2.10	1.50
Heavy	25	12	3	3¾	1x1½	3.00	2.00

Pronounced "RU" as in RUBY

RU-BER-OID

ROOFING

COSTS MORE - WEARS LONGER

FOR OVER 23 YEARS THE STANDARD.

RU-BER-OID is the original ready-to-lay roofing, and was for several years the only roofing of this character. Different from and superior to all other prepared roofing, in that **RU-BER-OID** compound or gum, an exclusive combination of high-grade, water-proof, acid- and fire-resisting ingredients is used in its manufacture. This gum is used in no other roofing. That the first roofs of **RU-BER-OID** applied in 1892 are still giving satisfactory service is indisputable evidence of unequalled durability. **RU-BER-OID** contains no rubber. It contains no tar. It contains no paper. It contains no asbestos. It is not an asphalt roofing. **RU-BER-OID** is tasteless. It is odorless. It can be used on roofs from which drinking water is conserved. **RU-BER-OID** is fire-resisting. Hot coals thrown on a roof covered with it do not set fire to the fabric, nor to the boarding underneath. **RU-BER-OID** is a non-conductor of heat. It keeps the heat in in winter, and the heat out in summer. **RU-BER-OID** will outlast tin, iron or shingles. It has outlasted its upwards of 300 imitations, variously known as "rubber" roofings, "asphalt" roofings, "asbestos" roofings, etc. Put up in rolls 36 inches wide, containing 108 square feet.



Light ($\frac{1}{2}$ -ply), 108 sq. ft., weight, 25 pounds. Price\$1.75

Medium (1-ply), 108 sq. ft.; weight, 35 pounds. Price 2.00

Heavy (2-ply), 108 sq. ft.; weight, 45 pounds. Price 2.50

Extra heavy (3-ply), 108 sq. ft.; weight, 55 pounds. Price..... 3.00



COLORED RU-BER-OID

ROOFING



COLORED RU-BER-OID possesses all the enduring qualities of the Gray Ru-Ber-Oid. The attractive colors are permanent—built into the roofing.

COLORED RU-BER-OID is furnished in rolls either 24 inches wide, containing 110 square feet, or 36 inches wide, containing 108 square feet, sufficient to cover one hundred square feet—the extra material being allowed for the two-inch laps.

Tile-Red (Medium Weight), 45 pounds.....\$3.00

Tile-Red (Heavy Weight), 55 pounds..... 3.50

RU-BER-INE CEMENT necessary for seams, together with special large-headed sherardized (zinc coated) nails, are included in each roll of **RU-BER-OID** and **COLORED RU-BER-OID ROOFING**.



VULCANITE ORNAMENTAL ROOFING

STYLE D.

This roofing is laid in strips, one edge of which is cut in a shingle or slate pattern. It is far more durable than shingles, very decorative, and fire resistant. Made in permanent emerald green and garnet, which cannot fade because they are the natural tints of the crushed rock surface.

There's no cracking of slate, nor splitting and breaking, as with wood shingles, and the roofing is of triple thickness, insuring absolute protection in all weathers. Costs half as much to lay as shingles. Is put up in rolls; 2 rolls to the square; without nails. Price, per square.....\$5.50

VULCANITE PLAIN ROOFING.

Put up in rolls; with nails and cement.

Price, per square.....\$2.50

VULCANOID ROOFING

Cheaper than tin, slate, tile or shingles. An attractive and permanent roofing at a moderate cost. Made from the finest grade of wool felt. Guaranteed to contain no coal tar. Weather-, rot- and acid-proof. Does not taint rain water. Adaptable to every style of building. Made in 1-, 2- and 3-ply.

1-ply weighs 34 lbs. Price.....\$1.60
2-ply weighs 44 lbs. Price..... 2.00
3-ply weighs 54 lbs. Price..... 2.25

Per Roll of 108 Square Feet.

REVERSO ROOFING

Smooth surface on one side and sanded surface on the other. A good, honest roofing at a moderate price.

1-ply\$1.25

2-ply 1.50



TURCO ROOFING

Turco is a reliable roofing, but cannot be expected to give the same service as the Rex Flintkote or Gritco, because its price is less; but for temporary buildings and small buildings, where conditions are not severe, Turco will give you good service.

The materials used in the manufacture of Turco are selected with care, and are put together with care, and are carefully examined before shipped.

Sufficient nails and cement packed in each roll.

Prices: One-Ply, \$1.25; Two-Ply, \$1.50; Three-Ply, \$1.75.

108 Square Feet to Roll.

REX FLINTKOTE ROOFING



This material has a continuous service record of over fifteen years. It has proved its remarkable durability, weather-protecting and fire-resisting qualities on all kinds of buildings throughout practically the entire world, and under the severest conditions.

The way to buy roofing is not on claims of what it will or may do—but on the service it has shown, and the record of **REX FLINTKOTE** is your assurance of having a roof that meets every requirement.

Packed in rolls 36 inches wide, containing 108 square feet. Nails, patent caps, cement and directions for laying furnished free with every roll.

Prices: One-Ply, \$2.00; Two-Ply, \$2.50; Three-Ply, \$3.00.

Rex-tile
TRADE MARK

THE MODERN SHINGLE

REX-TILE SHINGLES are exactly the same material as Rex Flintkote Roofing—only in shingle form.

They are made in Red and Slate colors, and are the only shingle on the market that are nailed down at the butt end with all nails concealed and protected.

REX-TILE SHINGLES are used on the best class of buildings—yet are low enough in cost to be within easy reach of the average builder.

RED REX-TILE is just as handsome as tile, while **Slate Rextile** cannot be told from actual slate—in fact, it looks heavier on the roof.

We furnish enough shingles in a square to lay three full thicknesses. 339—8x17½-in. shingles to square, with 1½-in. turned under at butt.

Price per square:
Slate Colored\$6.00
Permanent Red 7.50

REX STRIP SHINGLES



RED—SLATE SURFACED—GREEN

These shingles possess all the durability, attractiveness, weather protection and fire-resisting qualities of the modern asphalt shingle—plus 50 per cent. or more saving in the cost of application, because they can be laid so quickly.

Five shingles laid at a time—no spacing—no chalk line—one-half less nails—one-half less nail holes—four-fifths less cracks—no painting—no repairs.

REX STRIP SHINGLES are water-proofed, with pure refined asphalt. The wearing surface is natural chipped slate in handsome red and green colors. The colors are absolutely permanent.

Price, per square.....\$5.00

This material is also put up in rolls of 108 square feet. Nails and cement furnished.

Price, per roll.....\$2.50



“AMATITE” ROOFING

AMATITE is even more than ready to lay; it is all but laid. It is heavily coated and mineral surfaced at time of manufacture. After simply nailing in place on the roof, it **needs no painting**—in fact, no care or attention of any kind for years. It is made of roofing materials that have been time-tried and tested in every climate and under all conditions.

No painting, no repairs, no tinkering, no care or attention of any kind for a long time. A fire retardent; requires no skilled mechanic to lay it. Rolls 32 inches wide; 110 square feet, sufficient to cover 100 square feet of roof, allowing 3-inch laps. Cement and nails packed with each roll.

Price, per roll, \$2.00; five rolls.....\$9.50.

GRIFFTURNOID RUBBER ROOFING



This is a very high-grade roofing made of wood felt, thoroughly saturated with a non-drying gummy compound that remains soft and pliable in either hot or cold weather, and is absolutely water-proof. It is coated with a non-oxidizing water-proof coating. This combination produces a roof covering good for all time, in all climates, under all conditions. It is strong, durable and easy to lay. It is acid and alkali-proof, and fire-resisting. **Is made in one-, two- and three-ply, weighing 35, 45 and 55 pounds, respectively.**

Each roll is packed with nails, caps and cement paint.

108 square feet to roll.

PRICES:

1-Ply, \$1.50. 2-Ply, \$1.75. 3-Ply, \$2.00.



GRITCO ROOFING

GRITCO is an exceedingly high-grade roofing, made especially for us, and fully guaranteed. It does not possess the exclusive features found in the Rex Flintkote, although climate conditions will not affect it for many years. The ingredients used in the **GRITCO** are especially selected for their chemical adaptability, and in manufacture the utmost care is used to produce a uniform and dependable article.

Sufficient nails and cement packed in each roll.

Prices: One-Ply, \$1.75; Two-Ply, \$2.00; Three-Ply, \$2.25.

108 Square Feet to Roll.

CERTAIN-TEED ROOFING

When you want a smooth surfaced Roofing for your House, Barn, Garage, Factory, Warehouse Sky-scraper, Church, Apartment Building, or Farm Building, get

CERTAIN-TEED

—guaranteed 5, 10, or 15 years for 1, 2, or 3-ply respectively—backed by the responsibility of the World's greatest and biggest Roofing and Building Paper Mills. The **Certain-teed** label on this Roofing stands for a definite guaranteed service—a protection for you. Why try to save a dollar or two by putting on a cheap Roof that is not guaranteed, when you can buy **Certain-teed** for just a little more money and get much longer service on your Roof. In the long run it's less expensive to buy **Certain-teed**.

1-ply, 108 square feet.....	\$1.50
2-ply, 108 square feet.....	1.75
3-ply, 108 square feet.....	2.00

"REGAL" ROOFING



Does not dry out and crack. This is due to the peculiar asphalt used in the saturation of the body felt, which is softer than the outer coating and which gradually gives up its oils and thus continually renews the coating. Regal Roofing is composed of natural asphalts (genuine Trinidad Lake Asphalt being its base), properly processed and combined so as to withstand oxygen, sunlight, acids, wind, rain, snow, heat and cold. It is highly fire-resisting. Each roll contains 108 square feet, allowing 8 square feet for laps and flashings; also Nails and Liquid Cement, all packed complete in a single package.

½-ply, per roll, 100 square feet.....	\$1.25
1-ply, per roll, 100 square feet.....	1.75
2-ply, per roll, 100 square feet.....	2.00
3-ply, per roll, 100 square feet.....	2.25

Special Price in Large Quantities.

We have a cheaper grade of rubber roofing in all above sizes. Prices on application.

TARRED FELT

No. 3—Rolls 500 square feet, 60 lbs.....\$1.75

SLATERS' FELT.

500 square feet rolls, 30 lbs.....\$1.75

INSULATING PAPER.

Heavy—500 square feet rolls, 35 lbs.....\$0.30

ROSIN SIZED SHEATHING PAPER

In Rolls of 500-Square Feet Each.

25-lb. Sheathing Paper, per roll of 500 square feet.....	\$0.60
30-lb. Sheathing Paper, per roll of 500 square feet.....	.65
40-lb. Sheathing Paper, per roll of 500 square feet.....	.80

Special Prices in 10-roll lots; also by the ton.

TAR ROOFING PAPER

2-Ply Tar Roofing Paper, per roll of 108 square feet.....	\$0.75
3-Ply Tar Roofing Paper, per roll of 108 square feet.....	1.00

Cheaper Tar Roofing, Price on Application.

ROOFING CAPS

Per Pound6c.

"ZOLIUM"

THE ROOFING WITH THE TILE EFFECT.

Zolium is composed of a solid substance, both sides of which are hardened into a practically fireproof skin, which, after being applied to the roof, gradually oxidizes, becoming almost as hard as tile.

This prevents disintegration and washing away, as is the case with roofings covered with pebbles or slate.

Zolium furnishes practically a triple three-roofs-in-one protection, any one of which is sufficient to last many years.

While you have three thicknesses of roofing, the finished weight of **Zolium** is exceedingly light in comparison with the majority of other forms of roofing.

Light Red, per square.....	\$5.00
Dark Red, per square.....	5.00
Rex Red Roofing very much the same, not scoloped....	3.50

COMPETITION GRADE ASPHALT ROOFING

Intended for temporary buildings and takes the place of 2 and 3-Ply Tar Paper and will give much better service.

1-ply, 108 square feet, weight 35 lbs.....	\$0.80
2-ply, 108 square feet, weight 45 lbs.....	1.10

GRITCO ROOFING CEMENT

This cement is made especially to use on leaky roofs, and will stop leaks in Tanks, Silos, Barns, Cisterns and Flashings. Can be used anywhere on any kind of leak.

5-Pound Pail	\$1.00
10-Pound Pail	1.75
25-Pound Pail	3.75
50-Pound Pail	7.50

GRITCO ROOFING PAINT

For Painting Rubber, Tin, Iron or Prepared Roofings.

1-Gallon Cans	\$0.75
5-Gallon Cans	3.00
½ and Full Barrels, per gallon.....	.50

EVERJET ROOFING PAINT

1-Gallon Cans\$0.75

STANDARD ELASTIC PAINT

1-Gallon Cans\$0.75

GALVANIZED STEEL CORRUGATED ROOFING

1½ and 2½-inch corrugations, standard 29 gauge open hearth steel thoroughly galvanized. Made in sheets 26 inches wide; 6, 7, 8, 9 and 10 feet long. Can also furnish same in 27 gauge.

Galvanized Ridge Roll, both in corrugated and plain.

Write for Special Prices.

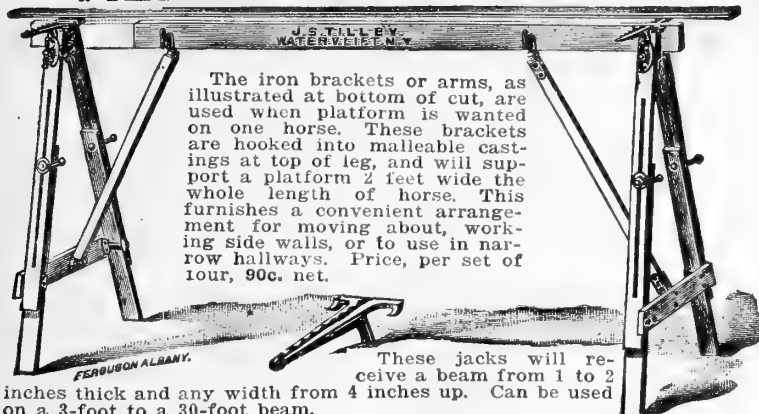
LEAD WASHERS

Per Pound\$0.30

GALVANIZED ROOFING NAILS

With extra large heads, per pound.....8c.

TILLEY ADJUSTABLE SCAFFOLDING JACKS



The iron brackets or arms, as illustrated at bottom of cut, are used when platform is wanted on one horse. These brackets are hooked into malleable castings at top of leg, and will support a platform 2 feet wide the whole length of horse. This furnishes a convenient arrangement for moving about, working side walls, or to use in narrow hallways. Price, per set of four, 90c. net.

These jacks will receive a beam from 1 to 2

inches thick and any width from 4 inches up. Can be used on a 3-foot to a 30-foot beam.

Are light, strong and suitable for plasterers, carpenters, painters and paperhangers, the putting up of metal ceilings, shafting, pulleys, etc. Nos. 8 and 13 have an extra end brace on slotted legs, with iron brace at each end of same. Nos. 9, 10, 14, 15 and 16 have extra end braces, same as 8 and 13; also have an extra grip on friction bolt in each traveling leg, making the jacks much stronger than formerly. This improvement consists of suspension brackets, which permits of making a scaffold at any elevation lower than the height of the jack when down to its limit. These brackets can be used with jacks already sold. They cost but 60c. With them and the proper size jack the scaffold can be made to fit a store or basement.

Fig. 2 shows two jacks represented in Fig. 1 as "knocked down." It is unnecessary to comment upon its compact form.

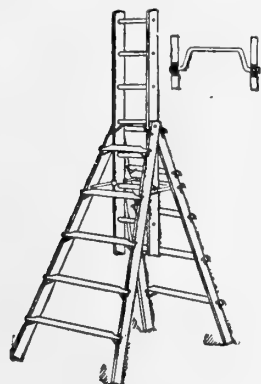


No.	3 3/4 x 1 1/4 Slotted Leg.	3 1/2 x 1 1/2 Traveling Leg.	Per Jack.
6.	Stands 4 ft. high, will extend to 6 ft.		\$2.75
7.	Stands 5 ft. high, will extend to 8 ft.		3.05
8.	Stands 6 ft. high, will extend to 9 ft.		3.45
9.	Stands 7 ft. high, will extend to 11 ft.		3.80
	Brackets, per set of four, net.		.90

EXTRA HEAVY FOR PLASTERERS AND MILL WORK.

No.	4 x 1 3/4 Slotted Leg.	3 3/8 x 1 1/2 Traveling Leg.	Per Jack.
11.	Stands 4 ft. high, will extend to 6 ft.		\$3.15
12.	Stands 5 ft. high, will extend to 8 ft.		3.45
13.	Stands 6 ft. high, will extend to 9 ft.		3.85
14.	Stands 7 ft. high, will extend to 11 ft.		4.25
15.	Stands 8 ft. high, will extend to 12 1/2 ft.		4.55
16.	Stands 10 ft. high, will extend to 15 ft.		6.25

EXTENSION TRESTLES

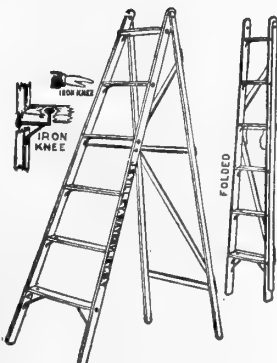


AUTO-MATIC LOCKING DEVICE.

No rods to take out, no thumb nut to adjust. One set of these Trestles will take the place of four sets of ordinary Trestles.

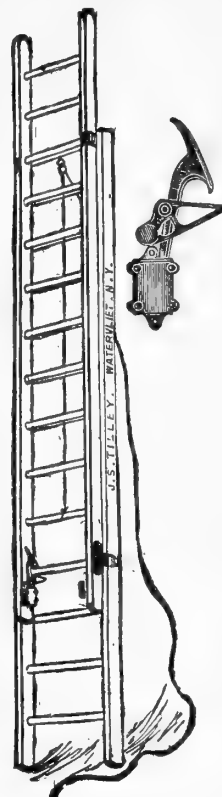
6-ft. will extend to about 9 ft.	\$5.00
7-ft. will extend to about 11 ft.	5.50
8-ft. will extend to about 13 ft.	6.00
9-ft. will extend to about 15 ft.	7.00
10-ft. will extend to about 17 ft.	8.25
12-ft. will extend to about 21 ft.	10.75
14 ft. will extend to about 25 ft.	14.00

Decorators' Ladders



4-Step..\$1.00	8-Step..\$2.00
6-Step.. 1.50	10-Step.. 2.50

OUR IMPROVED TILLEY EXTENSION LADDERS.



These ladders are stiff, strong and well built. Have improved patent spring locks attached to traveling sections, and are automatic in action. These locks are fastened securely to the inner sides of upper section, and made of the best malleable iron. They are also provided with a durable spring, which keeps the hook thrown forward and grasps each round of the stationary ladder as the traveling ladder passes upward. A tripper forces the hook back, allowing it to pass the rounds when descending.

PRICES.

24 ft., 2-12 ft. sec., extends 21 ft.	\$6.00
26 ft., 2-13 ft. sec., extends 23 ft.	\$6.50
28 ft., 2-14 ft. sec., extends 25 ft.	\$7.00
32 ft., 2-16 ft. sec., extends 29 ft.	\$8.00
36 ft., 2-18 ft. sec., extends 33 ft.	\$9.00
40 ft., 2-20 ft. sec., extends 36 ft.	\$12.00

Other Lengths Given on Application.

Windlass Ladders can be furnished if desired.

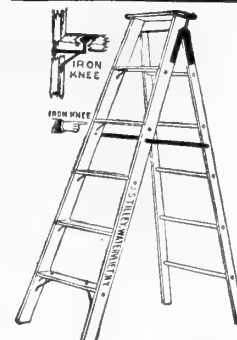
Prices on Application.

TILLEY LIBERTY EXTENSION SPREAD BOTTOM LADDER OR WITH PARALLEL SIDES.

24 ft., extends 21 ft.	\$4.80
26 ft., extends 23 ft.	5.20
28 ft., extends 25 ft.	5.60
32 ft., extends 29 ft.	6.40
36 ft., extends 33 ft.	7.20
40 ft., extends 36 ft.	10.00

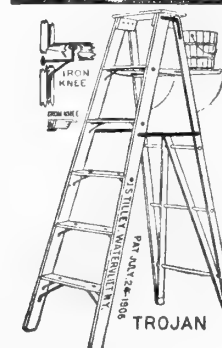
TILLEY ELECTRICIANS' STEP LADDER.

Constructed as shown in cut above. Strictly first class in every respect. A Combination Step Ladder and Trestle. Just the ladder for Electricians, Painters, Plumbers and mill work. A combination knee, tie and regular brace (as shown in detached cut) under each end of each step, which passes down through the step out through the sides and riveted at both ends, forms a positive tie support and angular brace.

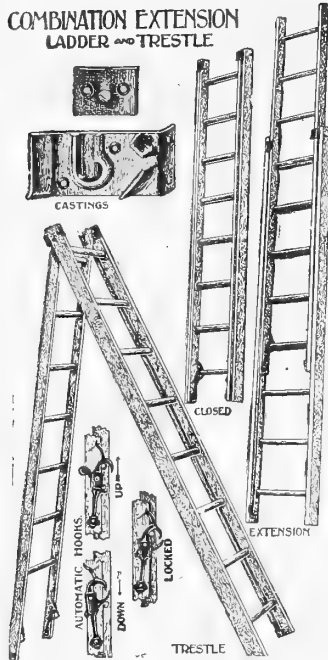


6-Step.....\$2.40	14-Step.....\$7.00
8-Step..... 3.20	16-Step..... 8.00
10-Step..... 4.00	18-Step..... 9.00
12-Step..... 4.80	20-Step.....10.00

Tilley Trojan Step Ladder



Light, strong and stiff. Iron knees under ends of each step. These knees pass entirely through the steps and side bars, holding ladders firmly together and insuring a strong brace to the steps. Pail rests on all sizes of 5 feet and over. Furnished in 6, 7, 8, 10 and 12-foot lengths. Price, 30c. per foot.

COMBINATION EXTENSION
LADDER AND TRESTLEGRITCO COMBINATION EXTENSION
LADDER AND TRESSLE

This is a first-class ladder, with rope and pulley attachment above 18 feet. Has automatic Hooks, and can be used as an Extension Ladder, or can be converted into a Trestle, which also serves as a Stepladder. Can be taken apart. Always made in equal sections; 12 to 28 feet. **Price, per ft., 18c.**

Above 24-ft. we prefer the Rope and Pulley Extension.

GRITCO "SECURITY" STEP LADDER

WITH ALL-STEEL LOCK

Made from strictly clear seasoned wood. Extra wide steps and top. Has very strong, full-looped, galvanized steel hinge or ear, with right angle flange to which top is riveted. Every step is rodged and trussed so that it is constantly being drawn together when there is weight upon the steps; cannot get rickety. Braces are all-steel bound; secure in every point. 4 to 12 ft., per ft., 30c.

12 to 16 ft., extra heavy, per ft., 40c.

GRITCO PULLEY
EXTENSION LADDER

There is not a finer ladder on the market.

White spruce sides; 1 1/4-inch straight, air-dried First-Class Hickory rounds.

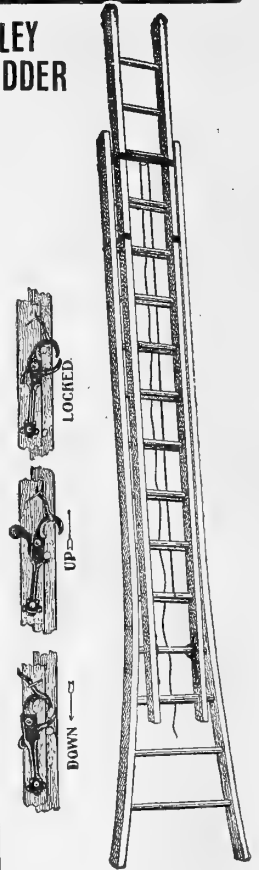
Spread at base; 6 to 10 inches more than regular width of ladder.

Has Automatic Hooks and is operated by the rope. It can be easily and quickly taken apart and put together.

26 to 30 ft., per ft., 18c.

32 to 44 ft., per ft., 20c.

Allow 2 feet for lap on ladders 32 feet and under, and 3 feet on ladders over 32 feet.



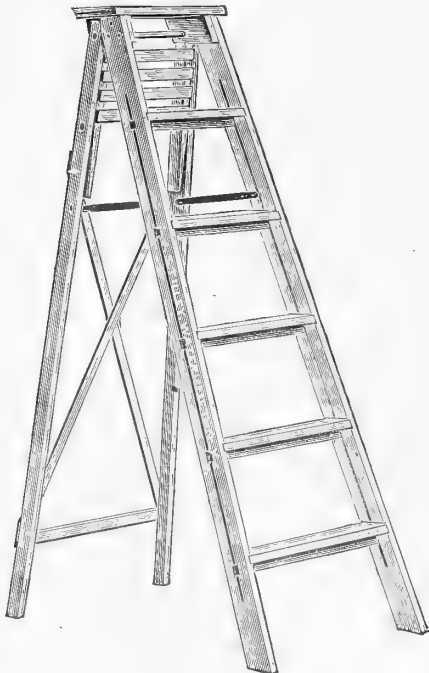
SINGLE LADDERS



Made of spruce, with hand-shaved oak rounds; first class in every particular. **Price, 12, 14, 16, 18 feet, 15c. per foot. Ladders over 18 ft., 2c. per foot extra.** Also have a cheaper ladder, 2c. per foot less than above prices.

Masons' or Bricklayers' Heavy Parallel Sides Straight Ladders, 18 to 24 ft., 25c. per ft.

TILLEY UMPIRE STEP LADDER.



A light, strong, well-made ladder braced under each step with strips which support the steps, tie the sides together and stiffen the entire ladder. Best ladder made for the money. **Sizes, 4, 5, 6, 7, 8, 10 and 12 steps, 22c. per step.**

WINNER STEP LADDER

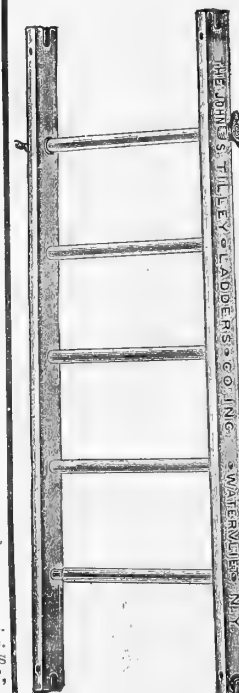
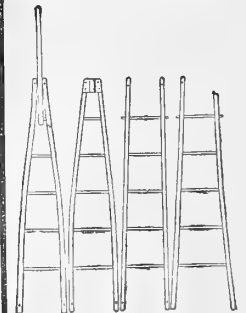


An excellent ladder at a low cost. This ladder will last a long time. It is strong, stiff and durable. Has solid board shelf. **Sizes, 4, 5, 6, 7, 8, 10 and 12 steps, 20c. per step.**

TILLEY IMPROVED SECTIONAL LADDERS.

Sections 6 feet 5 inches long. Either plate and pin lock or lock nut fastening.

Per Section, \$1.50.

WINDOW CLEANERS'
AND FRUIT
PICKERS' LADDERS

Nos. 4, 3, 2, 1.

No. 1—Bottom or floor section.

No. 2—Regular or middle section.

No. 3—Top window cleaners' section.

No. 4—Top fruit pickers' section.

Price, any section, per section, \$1.50.

THE WINANS LADDER JACK

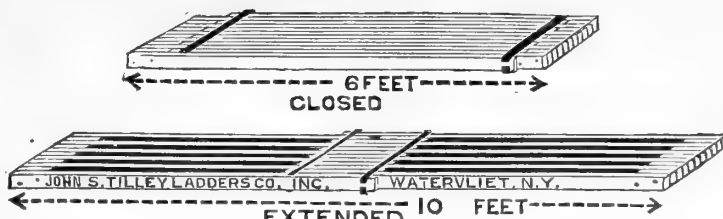


View Showing Jacks on Inside of Ladder

The Winans Ladder Jack is absolutely the strongest and best made; all other ladder Jacks are only as strong as the weakest rung of the ladder. Attaching these Jacks on the standard of the ladder instead of the rungs, gives it much greater strength. It can be raised or lowered to any desired height or angle, or reversed to either the outside or under side of the ladder in a minute's time without removing the plank or scaffolding from the Jack. They are self-locking and adjust themselves to any standard make of ladder. Being made of "Best Grade" $1\frac{1}{2} \times 1\frac{1}{2}$ angle steel we guarantee them to support one thousand pounds; yet weigh but $4\frac{1}{2}$ pounds each, and can be folded into a small compass for convenient carrying.

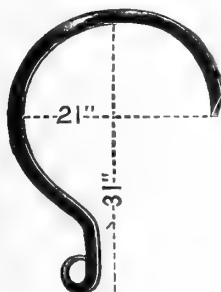
\$3.00 a Pair.

Telescoping Extension Plank



Joints near the bearing points making a stiff plank....Price, \$5.00

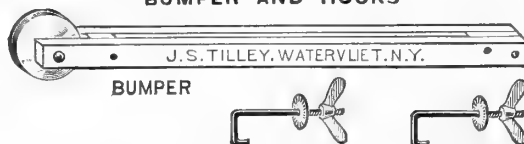
ROOF AND GUTTER HOOKS



For Hanging Swing-
ing Stages or can be
used for many other
purposes, strong and
durable.

Price, per pair...\$3.50

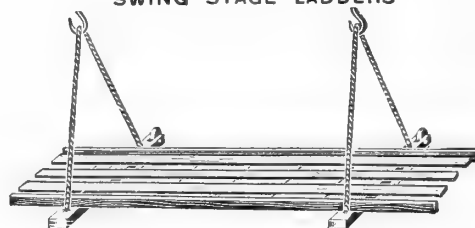
BUMPER AND HOOKS



BUMPER

The cut above shows one Bumper and two Hooks. It requires two bumpers and four complete Hooks, Nuts and Washers for each set to be used on swing stage ladders. Bumpers, Pr. with 4 Hooks.....\$2.50

SWING STAGE LADDERS



are made from selected stock and rodged with iron rods with or without flooring.

Swing Stage Ladders
18-20-22-24-foot without Floor 30c. per foot.
with Floor....40c. per foot.

"A"-SHAPED TRESTLES

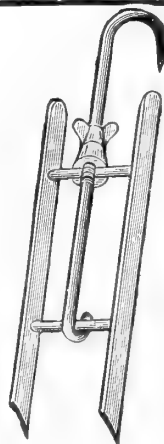


STRONG AND LIGHT.

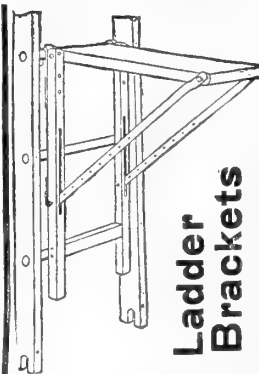
Made in All Sizes, From
6 Feet to 12 Feet.

Pair.
2 6-ft. Trestles\$5.40
2 8-ft. Trestles 7.20
2 10-ft. Trestles 9.00
2 12-ft. Trestles ... 10.80

Tilley Ladder Hook



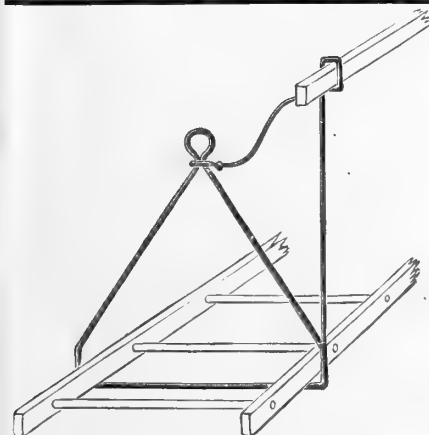
This old reliable and well-known ladder hook needs very little explanation. The cut explains all its merits and utility for a roof ladder. It can be quickly attached or detached. Price, 50c. each.



Ladder Brackets

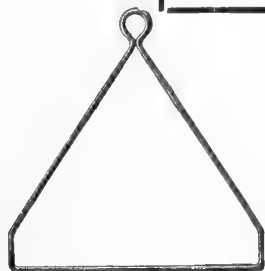
Are adjustable to any angle of the ladder or any pitch of the roof. No fitting to the ladder.

Price, each.....\$3.00



TRIANGLE FOR GUARD RAIL

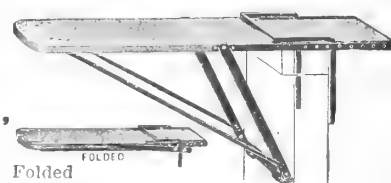
24 1/2 in. and 30 1/2 in. wide inside measurement, \$6.00 per pair.



TRIANGLE

20 1/2 in., 24 1/2 in. and 30 1/2 in. wide, inside measurement, \$4.00 per pair.

Window Bracket or Painters' Cripple



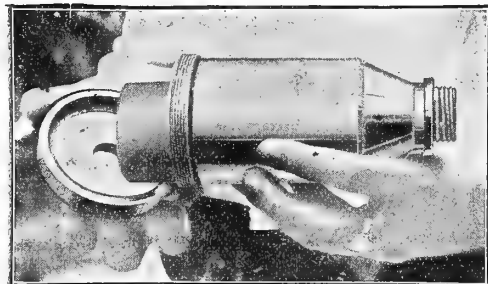
Strong, folds up closely; weight, 24 pounds. Made of best material. Safe, and can be quickly adjusted to any window.

Regular Size, 4 ft. 4 in. board, \$5.00 each.

Extra Size, 6 ft. board, \$6.00 each.

KIRKE SYSTEM

Fertilize While Watering or Destroy Insects



FEEDER, a cylindrical cartridge container, which is easily connected to any standard size water faucet, and in which is placed a Kirke Fertilizer Cartridge or a Kirke Insecticide or Fungicide Cartridge. **THE KIRKE FEEDER** is an automatic Fertilizer and Insecticide distributor, built to hold one Kirke Fertilizer, Insecticide or Fungicide Cartridge. It is a neat device, and will last a lifetime. There is nothing to get out of order; there is no complicated or intricate machinery. The Kirke Feeder is simplicity itself, and even a child can handle it.

Kirke Feeder, for Fertilizer and Insecticide Cartridges, nickel plated, complete, \$3.00 each. Mail weight, 1 lb.

Kirke Fertilizer Cartridges, in dozen and half-dozen boxes, \$3.00 per doz.; \$1.60 per half doz.; 30c. each. Mail weight, 1 doz., 7 lbs.; half doz., 3½ lbs.

Kirke "Tobacco" Insecticide Cartridges, in dozen and half-dozen boxes, \$3.00 per doz.; \$1.60 per half doz.; 30c. each. Mail weight, 1 doz., 6 lbs.; half doz., 3 lbs.

Kirke Hot-House Special "Tobacco" Insecticide Cartridges, in dozen and half-dozen boxes, \$5.00 per doz.; \$2.75 per half doz.; 50c. each. Mail weight, 1 doz., 6 lbs.; half doz., 3 lbs.

Quotations on larger quantities furnished on request.

KIRKE SYSTEM FEEDER

(A Distributing Container)

The "Kirke System" of fertilizing, or destroying insects, requires the attachment of a simple device to your garden hose. This consists of the **KIRKE**

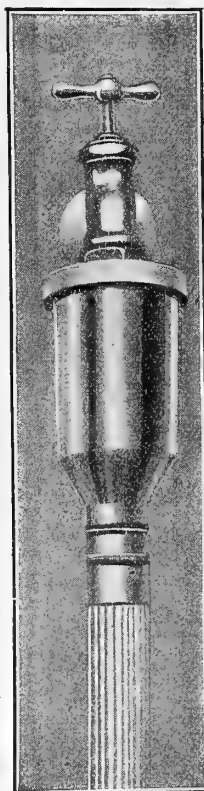


PRICES:

Kirke Arsenate of Lead Insecticide Cartridges, in dozen and half-dozen boxes, \$4.50 per doz.; \$2.30 per half doz.; 40c. each. Mail weight, 1 doz., 7½ lbs.; half doz., 3¾ lbs.

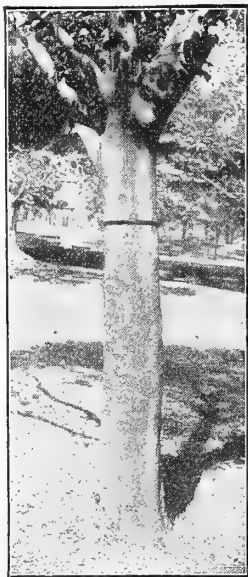
Kirke Bordeaux Cartridges, in dozen and half-dozen boxes, \$3.00 per doz.; \$1.60 per half doz.; 30c. each. Mail weight, 1 doz., 5 lbs.; half doz., 2½ lbs.

Kirke System Sprinkling-Can Plant Food, 12 tablets in a box, ½-dozen and dozen cartons, 30c. per box (12 tablets); \$1.60 per carton of 6 boxes (72 tablets); \$3.00 per carton of 12 boxes (144 tablets). Mail weight, 1 doz., 8½ lbs.; half doz., 4½ lbs.



ATTACHED TO HYDRANT

STICKY TREE CORD



A soft cord about ¾ of an inch in diameter, thoroughly saturated and coated with a black sticky material similar in character to that used on sticky fly paper. It is supplied in tubes about 2¼x6 inches, and the cord is pulled out through a hole in the screw top, which has an attachment for clamping to facilitate cutting off the cord. It is applied to trees by tacking one end to the tree, then passing it around once or twice, tacking about every 18 inches, and then cut off. The cord will remain sticky for three or four months, according to climatic conditions. Its improvement over present methods are:

Ease of Applying—Five times as fast as with a viscid sticky mass that has to be delved into with a stick or paddle and pasted on to trees in irregular unsightly daubs, and does not get on hands or clothing. Much easier to apply than fly paper, lasting three or four times as long, and far less objectionably obtrusive than either of these two. Each tube contains approximately 30 feet of cord, sufficient to band about 10 trees one foot in diameter once around, or 10 trees six inches in diameter twice around. It is cheaper than fly paper, and cheaper than sticky tree material. Trees banded with Sticky Tree Cord are not unsightly.

Price 25c

Scott's Tree Guards



Protect your trees from Borers by using Scott's Tree Guards. These guards are placed around the tree at the bottom, and are sealed on, and will last three years. Made in three sizes. Be sure to state the diameter of the trees.

Price—100, 5c. Each; 500, 4¼c. Each.

SEEDS.

	SEEDS.	Binder Repairs.....	176-177	Corn Planters.....	159-160	Gape Worm Extractors.....	113
Asparagus Bunchers.....	3-78	Binders.....	176	Corn Shellers.....	184	Garage Air Outfits.....	193
Asparagus Knives.....	3-78	Binder Twine.....	210	Corn Thinner.....	213	Garbage Cans.....	189
Asparagus Roots.....	3	Bits.....	221	Corona Dry.....	96	Garden Calendar.....	1
Barley.....	43	Black Leaf 40.....	96	Copper Sulphate.....	96	Garden Cultivators.....	144-146
Broom Corn.....	48	Blacksmith Outfits.....	222	Cotters Spring.....	176	Garden Hoes.....	214
Buckwheat.....	43	Blatchfords Calf Meal.....	105	Cotton Waste.....	198	Garden Hose.....	90
Caladiums.....	67	Blatchfords Egg Mash.....	103	Coulters, Rolling.....	156	Garden Outfits.....	215
Canada Field Peas.....	48	Blatchfords Lamb Food.....	103	Cow Bowls.....	225-226	Garden Rakes.....	215
Canna Roots.....	58	Blatchfords Pig Meal.....	103	Cow Ease.....	106	Garden Reels.....	74
Cannas.....	58	Blocks and Tackle.....	210	Cow Remedies.....	99-104	Garden Sets.....	215
Chrysanthemums.....	59	Bluestone.....	96	Cradles.....	217	Garden Syringes.....	77
Clover Seeds.....	44-45	Bot Sleds.....	242	Cream Separators.....	118	Garden Tools.....	144-146
Corn, Sugar.....	16-17	Boilers.....	117	Crow Bars.....	213	Garden Trowels.....	74
Corn, Field.....	42-43	Bolster Springs.....	236	Crushed Oyster Shell.....	103	Gasoline Hoists.....	197
Cow Peas.....	47	Bolts, Carriage & Machine.....	221	Cultivator Repairs.....	165	Gasoline Storage Outfits.....	193
Dahlia Roots.....	60-62	Bone & Shell Mills.....	114	Cultivators.....	166	Gates.....	139
Dahlias.....	60-62	Books.....	72	Cultivators, Hand.....	214	Glazing Machines.....	77
Flax Seed.....	48	Bordeaux Arsenate of Lead.....	95	Cultivators, Horse.....	162-164	Glazing Points.....	77
Flower Seed.....	49-56	Bordeaux Arsenite of Zinc.....	95	Cultivator Steels.....	165	Glazing Putty.....	77
Forage and Silo Seed.....	47	Bordeaux Mixture.....	95	Cultivators, Walking.....	163	Governor Pulley.....	118
Garden Calendar.....	1	Bordeaux Mixture of Paris.....	95	Curry Combs.....	229	Grafting Wax.....	77
Geraniums.....	63	Green.....	95			Grain Bins.....	191
Gladiolus.....	67	Border Shears.....	75			Grain Cradles.....	217
Grass Seeds.....	44-45	Cows, Cow.....	225-226	D		Grain Drills.....	156
Herbs.....	32	Braces.....	218	Dairy Thermometers.....	125	Grain Fans.....	186
Kafir Corn.....	47	Breast Chains.....	234	Dairy Supplies.....	118-129	Granulated Milk for Poultry.....	102
Lawn Grass.....	46	Brood Coops.....	112	Dandelion Pullers.....	213	Grape Dust.....	94
Madeira Vine Roots.....	67	Brooders.....	109	Darling Meat Crisps.....	103	Grape Scissors.....	75
Millet.....	48	Brooder Stoves.....	110	Daytons.....	238	Grass Catchers.....	131
Mushroom Spawn.....	27	Brooms.....	128	Deep Tilling Machines.....	153	Grass Hooks.....	74-118
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Oats.....	43	B. T. S.....	94	Developing Food.....	103	Grinding Mills, Hand.....	114
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Raffa.....	3	Buggy Backs.....	235	Disk Harrows.....	168-170	Grit & Shell Boxes.....	112
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Rose Bushes.....	65-67	Buggy Shafts.....	238	Dominion Fly Spray.....	106		
Sunflower Seed.....	48	Buggy Tops.....	235	Double Trees.....	244	H	
Sweet Peas.....	56	Bull Leader Snaps.....	127	Drag Scrapers.....	245	Hackets Gape Cure.....	101
Teosinte.....	48	Bull Rings.....	127	Drill Points.....	156	Halter Chains.....	235
Tube Roses.....	67	Bull Tongues.....	165	Drills Fertilizer.....	156	Halters.....	228
Vegetable Plants.....	57	Bush Hooks.....	217-218	Drills, Hand.....	144-146	Hame Chains.....	234
Vegetable Seeds.....	3-40	Bush Pullers.....	213	Drills, Machinists'.....	221	Hames.....	234
Vetches.....	48	Butter Boxes.....	123	Drill Tubes.....	156	Hame Strings.....	235
Wheat.....	43	Butt Chains.....	234	Drinking Fountains.....	112	Hammers.....	218
White Clover.....	45	Butter Bowls.....	122	Dry Mash Hoppers.....	112	Hand Corn Planters.....	159
		Butter Cartons.....	107	Dust Hoods.....	232	Handles.....	216

Printed by Thomas & Evans Printing Co.

FERTILIZERS FOR THE FARM, LAWN and GARDEN

On account of the unsettled conditions of the market on certain chemicals that go to make up fertilizers, we are unable to give prices that would likely be maintained for any length of time. We have therefore left out prices, but would be pleased to quote to you on your requirements. Kindly write for prices.

The application of Fertilizers has been a topic much discussed among farmers generally. The quality and requirements of the soil are so varied, some lands being deficient in Potash, Phosphoric Acid, or some other chemical ingredient, that is frequently very difficult for the farmer to determine just what mixture he needs. We give below a line of fertilizers best adapted to the various soils and crops.

Ammoniated Alkaline Plant Food

Our old stand-by for summer crops; is used largely on Potatoes, Corn, Tobacco and other summer crops, stands the hot, dry weather particularly well.

Price Per Bag.
Price Per Ton.
Write for prices.

Ammoniated Butchers' Bone Phosphate

Is made largely from slaughter-house stock; used principally for Wheat and Grass, as well as by growers of Corn and Tomatoes for canning purposes. A good article at a low price.

Price Per Bag.
Price Per Ton.
Write for prices.

Animal Bone Phosphate

Made from Animal Bone, Potash and Ammoniates in proper proportion. A complete manure always gives good results. Specially adapted to the growth of Peas, Cabbage, Wheat and Grass. It contains the ingredients necessary to supply what may be lacking in the soil for almost any crop.

Price Per Bag.
Price Per Ton.
Write for prices.

Swifts Sheep Manure

This is purely a natural and most nutritious plant food, clean to handle, and its effect is immediate and lasting. There is nothing better to mix with soil for potting plants. Florists who use it extensively advise mixing about one-seventh manure and six-sevenths soil. As a top dressing for lawns, it is unequalled.

5 lbs. 25c. 10 lbs. 40c. 25 lbs. 75c.
50 lbs. \$1.00.

Special prices in tons, ½ tons, or carload.

Soft Ground Bone

Made from softer material than the regular "Ground Bone," and contains some little meat and blood. The great objection to the use of Pure Bone (the price) no longer prevents its use by any one wanting to restore worn-out land. Try it and be convinced.

PRICES.

5 lb. package, 25c. 10 lb. package, 40c.
Price Per Bag.
Price Per Ton.
Write for prices.

Special Raw Bone Meal

Made especially for Florists and Gardeners. Is exceedingly fine, and in addition to this, it is the Pure Bone, containing no foreign matter at all. Write for sample.

Price Per Bag.
Price Per Ton.
Write for prices.

Special Potato Fertilizer

Made especially for potatoes, running high in Potash and containing Ammonia and Available Phosphoric Acid in proper proportion for good results on this crop.

Price Per Bag.
Price Per Ton.
Write for prices.

Hardwood Ashes

Unleached

Most excellent for lawn dressing or orchards. Apply late in the fall or early spring, in order that the rains may leach the ashes and carry the elements down to the roots of the trees or grass. The ashes are in proper condition for immediate use. Apply at a rate of 1,000 to 1,500 pounds per acre.

Price, 100 pounds, \$1.50. Barrel, \$2.50.

Blood, Bone and Potash Mixture

Special High Grade Trucking Fertilizer. Extensively used by the leading truckers of Baltimore and Anne Arundel Counties with great success.

Price Per Bag.
Price Per Ton.
Write for prices.

Tobacco Bed Fertilizer

This brand is specially well adapted for use on tobacco beds, containing 10 per cent. of Ammonia and a good percentage of Potash and Phosphoric Acid. A most excellent substitute for Peruvian Guano. In bags, 167 lbs.

Price Per Bag.
Price Per Ton.
Write for prices.

Land Plaster

In bags, 200 lbs. each.

\$1.00 per bag. \$10.00 per ton.

Fine Ground Fish

Ground Tankage

High Grade Acid

Phosphate

Kanit, Muriate of Potash

Nitrate of Soda

Peruvian Guano

PRICES ON APPLICATION

Ground Limestone---For Improving the Soil

Ground Limestone is a soil sweetener and is free from injurious qualities. It is cheaper than any other lime product which can claim to be at all competitive, and is more easily handled.

There has been an enormous increase in its use in recent years, keeping pace with the growing of clover and alfalfa.

Limestone while an indirect plant food is as essential to the maximum production of some crops as is direct plant food.

In addition to producing chemical changes Ground Limestone also has mechanical effects, making clay soils more friable and more open to both air and water and so less susceptible to extreme dry and wet weather. In sandy soil the action is practically reverse; Ground Limestone in such soil has a cementing tendency and helps the soil to retain moisture.

We recommend the free use of Ground Limestone on lawns.

Per Bag of 100 Pounds.....\$1.00
Per Ton in Bags.....7.50

Write for prices in larger lots. Special inducements offered for car lots in bags or bulk.

Humus

As there are a number of articles on the market as high-grade Humus, it is safer to get analysis and sample.

THE GREAT SOIL BUILDER AND PLANT FOOD.

Humus comes from nature's own factory established thousand of years ago. This HUMUS is especially prepared in powdered form for your use. This preparation is no secret process, it being simply the driving out of its excessive moisture and adding further enriching properties. It is then in a powdered odorless form all ready for easy mixing with the soil. Its advantage over animal manure is that it is perfectly sanitary and odorless.

Think of the advantage of its use on your lawn where manures are both offensive and unsightly, and eventually have to be raked off. Manures are generally loaded with all kinds of weed seeds, HUMUS is guaranteed to be free from them.

In one season you can convert a practically worthless soil to one of surprising productivity. Being so reasonable in price, you can afford to use it liberally.

5 lbs., 15c. 10 lbs., 25c. 25 lbs., 40c. 50 lbs., 75c.
100 lbs., \$1.25. 500 lbs., \$5.00. Ton, \$18.00.

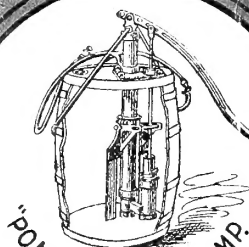
Write for prices on complete Special inducements offered for car lots in bags or bulk.

GRIFFITH & TURNER CO.

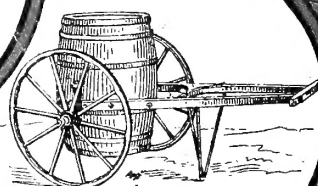
FARM AND GARDEN SUPPLIES



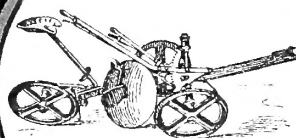
HARROWS



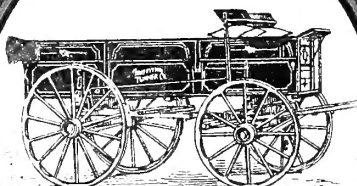
"POMONA" SPRAY PUMP.



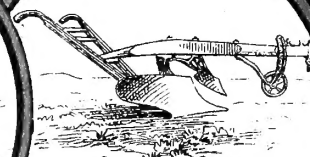
WATER CART



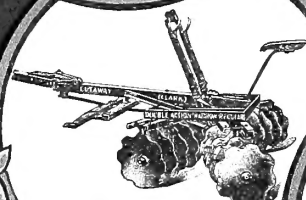
CHATTANOOGA-HANCOCK
DISC PLOW



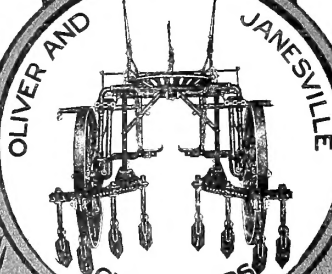
GRIFFITH & TURNER
STUDEBAKER
AND
BROWN.



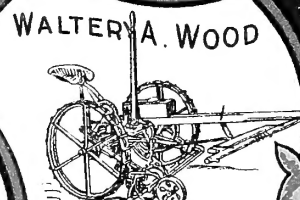
GENUINE OLIVER
CHILLED PLOW



Cutaway
HARROWS



OLIVER AND
JANESVILLE
CULTIVATORS



WALTERY A. WOOD
STEEL MOWER

**HEN-E-TA
BONE GRITS**
ABOUT 30% PURE
BONE ASH

NO OTHER BONE NEEDED | NO OTHER
GRIT NEEDED

GRIFFITH & TURNER CO.
GENERAL AGENTS.
BALTIMORE - MD.

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AND
TURNER Co's
ANIMAL
BONE
PHOSPHATE**

LEMON OIL CO'S INSECTICIDE

IS RECOMMENDED AND IN USE BY THE LEADING SEEDSMEN AND FLORISTS